

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTASEL1626

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * Welcome to STN International * * * * *

NEWS	1		Web Page for STN Seminar Schedule - N. America
NEWS	2	MAR 15	WPIDS/WPIX enhanced with new FRAGHITSTR display format
NEWS	3	MAR 16	CASREACT coverage extended
NEWS	4	MAR 20	MARPAT now updated daily
NEWS	5	MAR 22	LWPI reloaded
NEWS	6	MAR 30	RDISCLOSURE reloaded with enhancements
NEWS	7	APR 02	JICST-EPLUS removed from database clusters and STN
NEWS	8	APR 30	GENBANK reloaded and enhanced with Genome Project ID field
NEWS	9	APR 30	CHEMCATS enhanced with 1.2 million new records
NEWS	10	APR 30	CA/CAPplus enhanced with 1870-1889 U.S. patent records
NEWS	11	APR 30	INPADOC replaced by INPADOCDB on STN
NEWS	12	MAY 01	New CAS web site launched
NEWS	13	MAY 08	CA/CAPplus Indian patent publication number format defined
NEWS	14	MAY 14	RDISCLOSURE on STN Easy enhanced with new search and display fields
NEWS	15	MAY 21	BIOSIS reloaded and enhanced with archival data
NEWS	16	MAY 21	TOXCENTER enhanced with BIOSIS reload
NEWS	17	MAY 21	CA/CAPplus enhanced with additional kind codes for German patents
NEWS	18	MAY 22	CA/CAPplus enhanced with IPC reclassification in Japanese patents
NEWS	19	JUN 27	CA/CAPplus enhanced with pre-1967 CAS Registry Numbers
NEWS	20	JUN 29	STN Viewer now available
NEWS	21	JUN 29	STN Express, Version 8.2, now available
NEWS	22	JUL 02	LEMBASE coverage updated
NEWS	23	JUL 02	LMEDLINE coverage updated
NEWS	24	JUL 02	SCISEARCH enhanced with complete author names
NEWS	25	JUL 02	CHEMCATS accession numbers revised
NEWS	26	JUL 02	CA/CAPplus enhanced with utility model patents from China
NEWS	27	JUL 16	CAPplus enhanced with French and German abstracts
NEWS	28	JUL 18	CA/CAPplus patent coverage enhanced
NEWS	29	JUL 26	USPATFULL/USPAT2 enhanced with IPC reclassification
NEWS	30	JUL 30	USGENE now available on STN

NEWS EXPRESS 29 JUNE 2007: CURRENT WINDOWS VERSION IS V8.2,
CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
AND CURRENT DISCOVER FILE IS DATED 05 JULY 2007.

NEWS HOURS	STN Operating Hours Plus Help Desk Availability
NEWS LOGIN	Welcome Banner and News Items
NEWS IPC8	For general information regarding STN implementation of IPC 8

Enter NEWS followed by the item number or name to see news on that specific topic.

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of commercial gateways or other similar uses is prohibited and may result in loss of user privileges and other penalties.

* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 11:32:54 ON 03 AUG 2007

=> fil reg

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
0.21	0.21

FULL ESTIMATED COST

FILE 'REGISTRY' ENTERED AT 11:33:02 ON 03 AUG 2007

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

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STRUCTURE FILE UPDATES: 2 AUG 2007 HIGHEST RN 943961-55-5

DICTIONARY FILE UPDATES: 2 AUG 2007 HIGHEST RN 943961-55-5

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH December 2, 2006

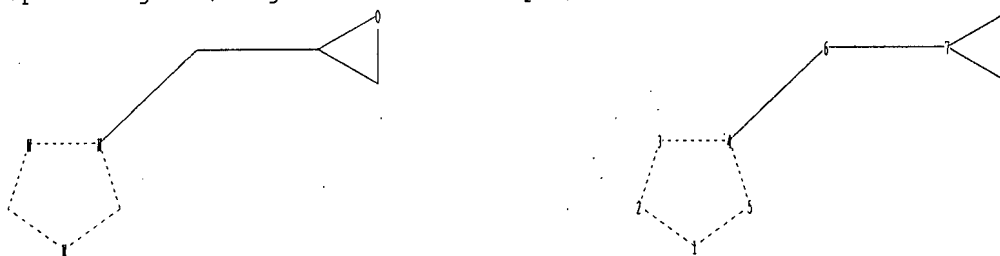
Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=>

Uploading C:\Program Files\Stnexp\Queries\10516727.str



chain nodes :

6

ring nodes :

1 2 3 4 5 7 8 9

chain bonds :

4-6 6-7

ring bonds :

1-2 1-5 2-3 3-4 4-5 7-8 7-9 8-9

exact/norm bonds :

1-2 1-5 2-3 3-4 4-5 4-6 7-8 7-9 8-9

exact bonds :

6-7

Match level :

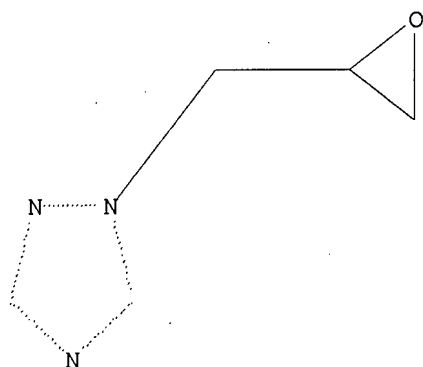
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:CLASS 7:Atom 8:Atom 9:Atom

L1 STRUCTURE UPLOADED

=> d

L1 HAS NO ANSWERS

L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l1

SAMPLE SEARCH INITIATED 11:33:15 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 77 TO ITERATE

100.0% PROCESSED 77 ITERATIONS

29 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 1014 TO 2066

PROJECTED ANSWERS: 257 TO 903

L2 29 SEA SSS SAM L1

=> s l1 full

FULL SEARCH INITIATED 11:33:18 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 1781 TO ITERATE

100.0% PROCESSED 1781 ITERATIONS

724 ANSWERS

SEARCH TIME: 00.00.01

L3 724 SEA SSS FUL L1

=> fil caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

172.10

172.31

FILE 'CAPLUS' ENTERED AT 11:33:22 ON 03 AUG 2007

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FILE LAST UPDATED: 2 Aug 2007 (20070802/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

<http://www.cas.org/infopolicy.html>

=> s 13

L4 858 L3

=> fil reg

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
0.47	172.78

FULL ESTIMATED COST

FILE 'REGISTRY' ENTERED AT 11:33:26 ON 03 AUG 2007
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DICTIONARY FILE UPDATES: 2 AUG 2007 HIGHEST RN 943961-55-5

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TSCA INFORMATION NOW CURRENT THROUGH December 2, 2006

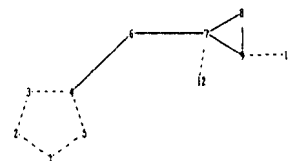
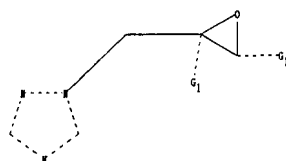
Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=>

Uploading C:\Program Files\Stnexp\Queries\10516727b.str



```

chain nodes :
6 12 13
ring nodes :
1 2 3 4 5 7 8 9
chain bonds :
4-6 6-7 7-12 9-13
ring bonds :
1-2 1-5 2-3 3-4 4-5 7-8 7-9 8-9
exact/norm.bonds :
1-2 1-5 2-3 3-4 4-5 4-6 7-8 7-9 7-12 8-9 9-13
exact bonds :
6-7
isolated ring systems :
containing 1 :

```

G1: Cy, Ak

```

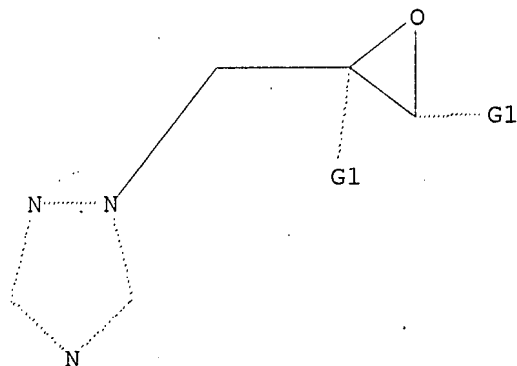
Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:CLASS 7:Atom 8:Atom 9:Atom 12:CLASS
13:CLASS

```

L5 STRUCTURE UPLOADED

=> d

L5 HAS NO ANSWERS
L5 STR



G1 Cy,Ak

Structure attributes must be viewed using STN Express query preparation.

=> s 15

SAMPLE SEARCH INITIATED 11:34:40 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 77 TO ITERATE

100.0% PROCESSED 77 ITERATIONS 18 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 1014 TO 2066
PROJECTED ANSWERS: 106 TO 614

L6 18 SEA SSS SAM L5

=> s 15 full

FULL SEARCH INITIATED 11:34:42 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 1781 TO ITERATE

100.0% PROCESSED 1781 ITERATIONS 479 ANSWERS
SEARCH TIME: 00.00.01

L7 479 SEA SSS FUL L5

=> fil caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	172.55	345.33

FILE 'CAPLUS' ENTERED AT 11:34:45 ON 03 AUG 2007
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FILE LAST UPDATED: 2 Aug 2007 (20070802/ED)

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=> s 17

L8 627 L7

=> fil reg

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION

FULL ESTIMATED COST

0.47	345.80
------	--------

FILE 'REGISTRY' ENTERED AT 11:34:49 ON 03 AUG 2007
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DICTIONARY FILE UPDATES: 2 AUG 2007 HIGHEST RN 943961-55-5

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TSCA INFORMATION NOW CURRENT THROUGH December 2, 2006

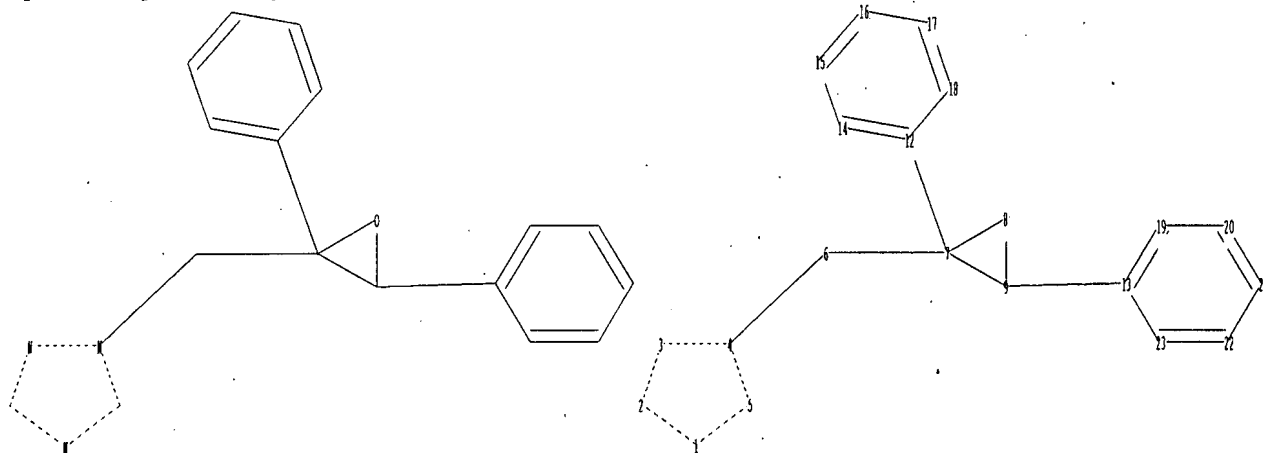
Please note that search-term pricing does apply when
conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=>

Uploading C:\Program Files\Stnexp\Queries\10516727c.str



chain nodes :

6

ring nodes :

1 2 3 4 5 7 8 9 12 13 14 15 16 17 18 19 20 21 22 23

chain bonds :

4-6 6-7 7-12 9-13

ring bonds :

1-2 1-5 2-3 3-4 4-5 7-8 7-9 8-9 12-14 12-18 13-19 13-23 14-15 15-16

16-17 17-18 19-20 20-21 21-22 22-23

exact/norm bonds :

1-2 1-5 2-3 3-4 4-5 4-6 7-8 7-9 8-9

exact bonds :

6-7 7-12 9-13

normalized bonds :

12-14 12-18 13-19 13-23 14-15 15-16 16-17 17-18 19-20 20-21 21-22 22-23

isolated ring systems :

containing 1 :

G1: Cy, Ak

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:CLASS 7:Atom 8:Atom 9:Atom 12:Atom

13:Atom 14:CLASS 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom 21:Atom

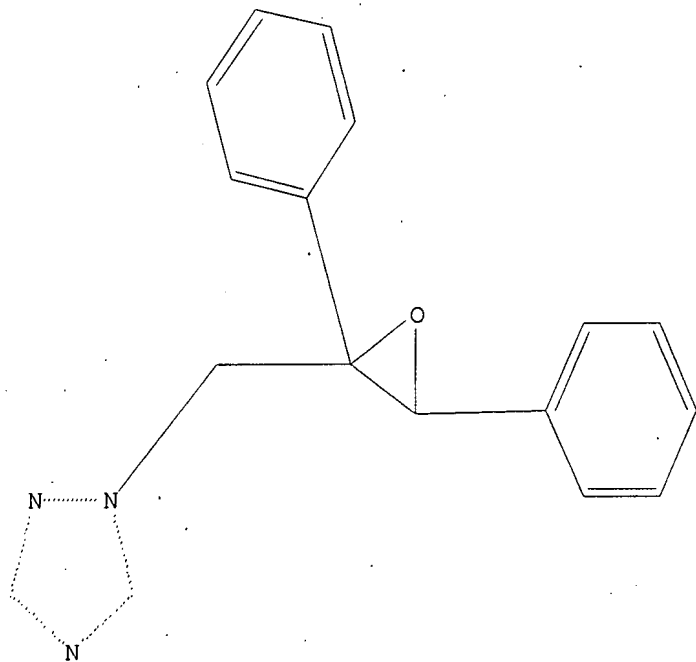
22:Atom 23:Atom

L9 STRUCTURE UPLOADED

=> d

L9 HAS NO ANSWERS

L9 STR



G1 Cy, Ak

Structure attributes must be viewed using STN Express query preparation.

=> s 19

SAMPLE SEARCH INITIATED 11:36:34 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 28 TO ITERATE

100.0% PROCESSED 28 ITERATIONS 13 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 243 TO 877
PROJECTED ANSWERS: 44 TO 476

L10 13 SEA SSS SAM L9

=> s 19 full

FULL SEARCH INITIATED 11:36:36 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 658 TO ITERATE

100.0% PROCESSED 658 ITERATIONS 360 ANSWERS
SEARCH TIME: 00.00.01

L11 360 SEA SSS FUL L9

=> fil caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	173.00	518.80

FILE 'CAPLUS' ENTERED AT 11:36:38 ON 03 AUG 2007
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FILE LAST UPDATED: 2 Aug 2007 (20070802/ED)

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=> s l11

L12 541 L11

=> fil reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.47	519.27

FILE 'REGISTRY' ENTERED AT 11:36:43 ON 03 AUG 2007
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STRUCTURE FILE UPDATES: 2 AUG 2007 HIGHEST RN 943961-55-5
DICTIONARY FILE UPDATES: 2 AUG 2007 HIGHEST RN 943961-55-5

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH December 2, 2006

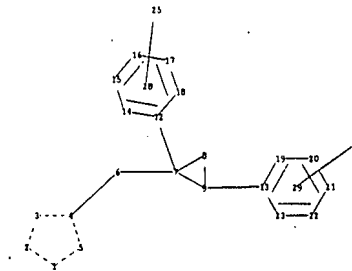
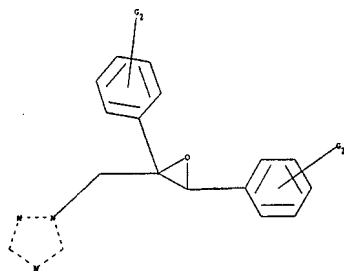
Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=>

Uploading C:\Program Files\Stnexp\Queries\10516727d.str



chain nodes :

6 25 26

ring nodes :

1 2 3 4 5 7 8 9 12 13 14 15 16 17 18 19 20 21 22 23

chain bonds :

4-6 6-7 7-12 9-13

ring bonds :
1-2 1-5 2-3 3-4 4-5 7-8 7-9 8-9 12-14 12-18 13-19 13-23 14-15 15-16
16-17 17-18 19-20 20-21 21-22 22-23
exact/norm bonds :
1-2 1-5 2-3 3-4 4-5 4-6 7-8 7-9 8-9
exact bonds :
6-7 7-12 9-13
normalized bonds :
12-14 12-18 13-19 13-23 14-15 15-16 16-17 17-18 19-20 20-21 21-22 22-23
isolated ring systems :
containing 1 :

G1: Cy, Ak

G2: X, Ak

Match level :
1: Atom 2: Atom 3: Atom 4: Atom 5: Atom 6: CLASS 7: Atom 8: Atom 9: Atom 12: Atom
13: Atom 14: CLASS 15: Atom 16: Atom 17: Atom 18: Atom 19: Atom 20: Atom 21: Atom
22: Atom 23: Atom 25: CLASS 26: CLASS 28: Atom 29: Atom

L13 STRUCTURE UPLOADED

=> d

L13 HAS NO ANSWERS

L13 STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.

=> s l13

SAMPLE SEARCH INITIATED 11:38:00 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 28 TO ITERATE

100.0% PROCESSED 28 ITERATIONS 12 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**

PROJECTED ITERATIONS: 243 TO 877
PROJECTED ANSWERS: 33 TO 447

L14 12 SEA SSS SAM L13

=> s l13 full

FULL SEARCH INITIATED 11:38:03 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 658 TO ITERATE

100.0% PROCESSED 658 ITERATIONS 285 ANSWERS
SEARCH TIME: 00.00.01

L15 285 SEA SSS FUL L13

=> fil cpalus

'CPALUS' IS NOT A VALID FILE NAME

SESSION CONTINUES IN FILE 'REGISTRY'

Enter "HELP FILE NAMES" at an arrow prompt (=>) for a list of files
that are available. If you have requested multiple files, you can

specify a corrected file name or you can enter "IGNORE" to continue
accessing the remaining file names entered.

=> fil caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

172.55

691.82

FILE 'CAPLUS' ENTERED AT 11:38:08 ON 03 AUG 2007

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=> s l15

L16 532 L15

=> s l16 and oxirane

19398 OXIRANE

2866 OXIRANES

20414 OXIRANE

(OXIRANE OR OXIRANES)

L17 25 L16 AND OXIRANE

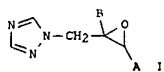
=> d ibib abs hitstr tot

THE ESTIMATED COST FOR THIS REQUEST IS 131.75 U.S. DOLLARS

DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:y

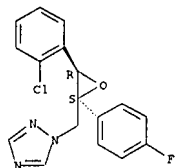
ACCESSION NUMBER: 2002:906212 CAPLUS
 DOCUMENT NUMBER: 138:5843
 TITLE: Production of (1-triazolylmethyl)oxiranes
 INVENTOR(S): Sander, Michael; Woack, Rainer; Kaiser, Reinhard
 PATENT ASSIGNEE(S): BASF Aktiengesellschaft, Germany
 SOURCE: PCT Int. Appl., 17 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002094819	A1	20021128	WO 2002-EP5262	20020514
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2002314062	A1	20021203	AU 2002-314062	20020514
EP 1395579	A1	20040310	EP 2002-740595	20020514
EP 1395579	B1	20050119		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
AT 287401	T	20050215	AT 2002-740595	20020514
ES 2235053	T3	20050701	ES 2002-2740595	20020514
PRIORITY APPLN. INFO.:			DE 2001-10124667	A 20010518
			WO 2002-EP5262	W 20020514
OTHER SOURCE(S):				
GI:				



AB The invention relates to a method for producing (1-triazolylmethyl) oxiranes (I; A, B = Cl-4-alkyl, phenyl-Cl-2-alkyl, C3-6-cycloalkyl, C3-6-cycloalkenyl, tetrahydropyranyl, tetrahydrofuranyl, dioxanyl, substituted Ph) from an activated (nucleophilic-substitutable) methyl oxirane and 1,2,4-triazole (along with an inorg. based) or its alkali metal or quaternary ammonium salt, in a dipolar aprotic solvent. The method is suitable for regioselective production of agricultural fungicides. Thus, 2-(methylsulfonyloxymethyl)-2-(4-fluorophenyl)-3-(2-chlorophenyl)oxirane was condensed with Na triazolidine in DMF to give 86.5% trans-epoxiconazole.

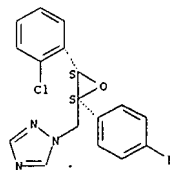
IT 122986-04-3P
 RL: AGR (Agricultural use); IMF (Industrial manufacture); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (production of (1-triazolylmethyl)oxiranes for fungicides)
 RN 122986-04-3 CAPLUS



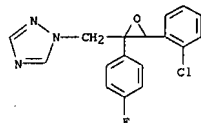
REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

CN 1H-1,2,4-Triazole, 1-[[[(2R,3R)-3-(2-chlorophenyl)-2-(4-fluorophenyl)oxiranyl]methyl]-, rel- (9C1) (CA INDEX NAME)

Relative stereochemistry.



IT 135319-73-2P
 RL: BVP (Byproduct); PREP (Preparation)
 (production of (1-triazolylmethyl)oxiranes for fungicides)
 RN 135319-73-2 CAPLUS
 CN 1H-1,2,4-Triazole, 1-[[[(2-chlorophenyl)-2-(4-fluorophenyl)oxiranyl]methyl]- (9C1) (CA INDEX NAME)

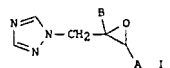


IT 133855-98-8
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (starting material; in production of (1-triazolylmethyl)oxiranes for fungicides)
 RN 133855-98-8 CAPLUS
 CN 1H-1,2,4-Triazole, 1-[[[(2R,3S)-3-(2-chlorophenyl)-2-(4-fluorophenyl)-2-oxiranyl]methyl]-, rel- (CA INDEX NAME)

Relative stereochemistry.

ACCESSION NUMBER: 2002:906210 CAPLUS
 DOCUMENT NUMBER: 138:5842
 TITLE: Purification of (1-triazolylmethyl)oxiranes
 INVENTOR(S): Noack, Rainer; Sander, Michael; Kaiser, Reinhard
 PATENT ASSIGNEE(S): BASF Aktiengesellschaft, Germany
 SOURCE: PCT Int. Appl., 15 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002094819	A1	20021128	WO 2002-EP5261	20020514
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2002312908	A1	20021203	AU 2002-312908	20020514
EP 1399437	A1	20040324	EP 2002-738069	20020514
EP 1399437	B1	20050126		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
AT 287884	T	20050215	AT 2002-738069	20020514
ES 2236524	T3	20050716	ES 2002-2738069	20020514
PRIORITY APPLN. INFO.:			DE 2001-10124666	A 20010518
			WO 2002-EP5261	W 20020514
OTHER SOURCE(S):				
GI:				

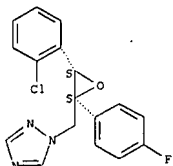


AB The invention relates to a method for the purification of (1-triazolylmethyl) oxirane derivative isomers (I; A, B = Cl-4-alkyl, phenyl-Cl-2-alkyl, C3-6-cycloalkyl, C3-6-cycloalkenyl, tetrahydropyranyl, tetrahydrofuranyl, dioxanyl, substituted Ph) obtained by reaction of the appropriate epoxide with 1,2,4-triazole or its alkali metal or quaternary ammonium salts in an aprotic dipolar solvent, whereby at the end of the reaction, the reaction solution is treated with a water-miscible cosolvent and the triazolylmethyl epoxide isomers are fractionally precipitated with water.

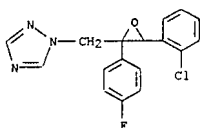
The method is suitable for the production of agricultural fungicides. In an example, a mixture of 98% trans-epoxiconazole, 1.83% sym-epoxiconazole, and 0.01% cis-epoxiconazole was obtained when the reaction was run in DMF with

L17 ANSWER 2 OF 25 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 subsequent treatment of the product with acetone, water, and methanol.
 IT 122986-04-3P
 RL: AGR (Agricultural use); IMF (Industrial manufacture); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (production and purification of (triazolylmethyl)oxirane isomers for fungicides)
 RN 122986-04-3 CAPLUS
 CN 1H-1,2,4-Triazole, 1-[[[(2R,3R)-3-(2-chlorophenyl)-2-(4-fluorophenyl)oxiranyl]methyl]-, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



IT 135319-73-2P 476648-91-6P
 RL: BYP (Byproduct); PREP (Preparation)
 (production and purification of (triazolylmethyl)oxirane isomers for fungicides)
 RN 135319-73-2 CAPLUS
 CN 1H-1,2,4-Triazole, 1-[[[(2S,3R)-3-(2-chlorophenyl)-2-(4-fluorophenyl)oxiranyl]methyl]- (9CI) (CA INDEX NAME)



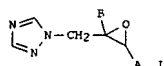
RN 476648-91-6 CAPLUS
 CN 1H-1,2,4-Triazole, 1-[[[(2S,3R)-3-(2-chlorophenyl)-2-(4-fluorophenyl)-2-oxiranyl]methyl]- (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

L17 ANSWER 3 OF 25 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2002:906209 CAPLUS
 DOCUMENT NUMBER: 138:5841
 TITLE: Purification of (1-triazolylmethyl)oxiranes
 INVENTOR(S): Noack, Rainer; Kraffzik, Reinhold; Koark, Dietmar
 PATENT ASSIGNEE(S): Basf Aktiengesellschaft, Germany
 SOURCE: PCT Int. Appl., 16 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

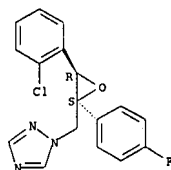
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002094817	A1	20021128	WO 2002-EP5148	20020510
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LX, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2002316900	A1	20021203	AU 2002-316900	20020510
EP 1395580	A1	20040310	EP 2002-745289	20020510
EP 1395580	B1	20041215		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
AT 284883	T	20050115	AT 2002-745289	20020510
ES 2235058	T3	20050701	ES 2002-2745289	20020510
PRIORITY APPLN. INFO.: DE 2001-10124664 A 20010518				
WO 2002-EP5148 W 20020510				

OTHER SOURCE(S): MARPAT 138:5841
 GI



AB The invention relates to a method for the purification of (1-triazolylmethyl)oxirane derivative isomers (I; A, B = C1-4-alkyl, phenyl-C1-2-alkyl, C3-6-cycloalkyl, C3-6-cycloalkenyl, tetrahydropyranyl, tetrahydrofuranyl, dioxanyl, substituted Ph) obtained by reaction of a suitable epoxide with 1,2,4-triazole and a molar equivalent of an inorg. base or with a 1,2,4-triazole alkali metal or quaternary ammonium salt; by means of washing the isomeric mixture (obtained after triazole addition, precipitation, and centrifugation) with a solvent. The method is suitable for the production of active isomers of agricultural fungicides. Trans-Epoxiconazole isomer purity 96.6% was obtained in an example.

L17 ANSWER 2 OF 25 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



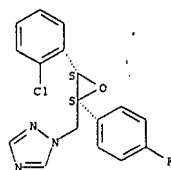
REFERENCE COUNT: 3

THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

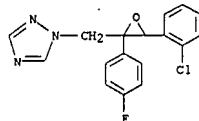
L17 ANSWER 3 OF 25 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

IT 122986-04-3P
 RL: AGR (Agricultural use); IMF (Industrial manufacture); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (purification of (triazolylmethyl)oxiranes produced for fungicides)
 RN 122986-04-3 CAPLUS
 CN 1H-1,2,4-Triazole, 1-[[[(2R,3R)-3-(2-chlorophenyl)-2-(4-fluorophenyl)oxiranyl]methyl]-, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

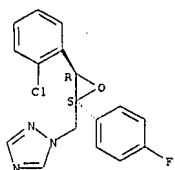


IT 135319-73-2P 476648-91-6P
 RL: BYP (Byproduct); PREP (Preparation)
 (purification of (triazolylmethyl)oxiranes produced for fungicides)
 RN 135319-73-2 CAPLUS
 CN 1H-1,2,4-Triazole, 1-[[[(2S,3R)-3-(2-chlorophenyl)-2-(4-fluorophenyl)oxiranyl]methyl]- (9CI) (CA INDEX NAME)



RN 476648-91-6 CAPLUS
 CN 1H-1,2,4-Triazole, 1-[[[(2S,3R)-3-(2-chlorophenyl)-2-(4-fluorophenyl)-2-oxiranyl]methyl]- (CA INDEX NAME)

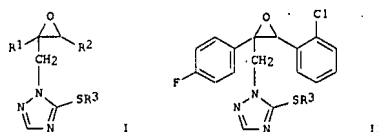
Absolute stereochemistry. Rotation (-).



REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

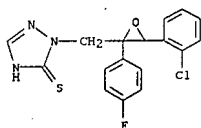
ACCESSION NUMBER: 1997:44726 CAPLUS
DOCUMENT NUMBER: 126:89374
TITLE: Preparation of triazolyloxiranes as microbicides for plant protection and materials preservation.
INVENTOR(S): Jautelat, Manfred; Tiemann, Ralf; Dutzmann, Stefan; Stenzel, Klaus
PATENT ASSIGNEE(S): Bayer A.-G., Germany
SOURCE: Ger. Offen., 29 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19520097	A1	19961205	DE 1995-19520097	19950601
WO 9638440	A1	19961205	WO 1996-EP2165	19960520
W: AU, BB, BG, BR, BY, CA, CN, CZ, HU, JP, KN, KZ, LK, MX, NO, NZ, PL, RO, RU, SK, TR, UA, US				
RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU 9658194	A	19961218	AU 1996-58194	19960520
EP 828734	A1	19980318	EP 1996-919790	19960520
EP 828734	B1	20000823		
R: DE, FR, GB				
JP 11506437	T	19990608	JP 1996-536142	19960520
ZA 9604472	A	19961211	ZA 1996-4472	19960531
PRIORITY APPLN. INFO.: DE 1995-19520097 A 19950601				
WO 1996-EP2165 W 19960520				
OTHER SOURCE(S): CASREACT 126:89374; MARPAT 126:89374				
GI				

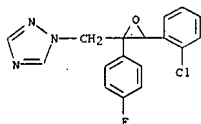


AB Title compds. [I; R1 = alkyl, haloalkyl, cycloalkyl, halocycloalkyl, naphthyl, (substituted) Ph; R2 = (substituted) Ph; R3 = H, alkyl], were prepared. Thus, 3-(2-chlorophenyl)-2-(4-fluorophenyl)-2-(1,2,4-triazol-1-yl)methyl)oxirane in THF at -70° was treated sequentially with BuLi, S, MeOH, and AcOH to give title compound (II). II at 25 g/h was 70% effective against *Pseudocercospora herpotrichoides* on wheat.
IT 185256-25-1P
RL: RAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of triazolyloxiranes as microbicides for plant protection)

and materials preservation)
RN 185256-25-1 CAPLUS
CN 3H-1,2,4-Triazole-3-thione, 2-[[3-(2-chlorophenyl)-2-(4-fluorophenyl)oxiranyl]methyl]-1,2-dihydro- (9CI) (CA INDEX NAME)

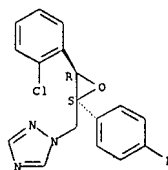


IT 135319-73-2
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of triazolyloxiranes as microbicides for plant protection and materials preservation)
RN 135319-73-2 CAPLUS
CN 1H-1,2,4-Triazole, 1-[[3-(2-chlorophenyl)-2-(4-fluorophenyl)oxiranyl]methyl]- (9CI) (CA INDEX NAME)



ACCESSION NUMBER: 1993:575770 CAPLUS
DOCUMENT NUMBER: 119:175770
TITLE: Epoxiconazole: a fungicide for cereals
AUTHOR(S): Floquet, Annick; Martin, Nicolas
CORPORATE SOURCE: BASF, Fr.
SOURCE: Phytoma (1993), 449, 54-7
CODEN: PYTOAU; ISSN: 0370-2723
DOCUMENT TYPE: Journal
LANGUAGE: French
AB Both Opus (epoxiconazole; (2R,3S)-3-(2-chlorophenyl)-2-(4-fluorophenyl)-2-[(1H-1,2,4-triazol-1-yl)methyl]oxirane) and Opus Team (epoxiconazole-fenpropimorph mixture) were effective against septoriois and rust in cereals, with high residual activity. The physicochem., toxicol. and biol. properties of epoxiconazole are discussed.
IT 133855-98-8, Opus 150106-77-7, Opus Team
RL: BIOL (Biological study)
(rust and septoriois control by, in cereals)
RN 133855-98-8 CAPLUS
CN 1H-1,2,4-Triazole, 1-[[3-(2-chlorophenyl)-2-(4-fluorophenyl)-2-oxiranyl]methyl]-, rel- (CA INDEX NAME)

Relative stereochemistry.

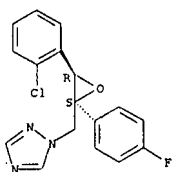


RN 150106-77-7 CAPLUS
CN Morpholine, 4-[3-(4-(1,1-dimethylethyl)phenyl)-2-methylpropyl]-2,6-dimethyl-, (2R,6S)-rel-, mxt. with rel-1-[[3-(2-chlorophenyl)-2-(4-fluorophenyl)oxiranyl]methyl]-1H-1,2,4-triazole (9CI) (CA INDEX NAME)

CM 1

CRN 133855-98-8
CMF C17 H13 Cl F N3 O

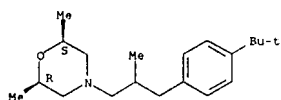
Relative stereochemistry.



CH 2

CRN 67564-91-4
CMF C20 H33 N O

Relative stereochemistry.



ACCESSION NUMBER: 1993:228243 CAPLUS

DOCUMENT NUMBER: 118:228243

TITLE: Synergistic fungicidal mixtures comprising methoximinophenylacetate derivatives

INVENTOR(S): Sauter, Hubert; Schelberger, Klaus; Saur, Reinhold; Lorenz, Gisela; Ammermann, Eberhard

PATENT ASSIGNEE(S): BASF A.-G., Germany

SOURCE: Eur. Pat. Appl., 13 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 531837	A1	19930317	EP 1992-114812	19920829
EP 531837	B1	19960327		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, PT, SE				
DE 4130298	A1	19930318	DE 1991-4130298	19910912
AT 135885	T	19960415	AT 1992-114812	19920829
ES 2085526	T3	19960601	ES 1992-114812	19920829
CA 2077245	A1	19930313	CA 1992-2077245	19920831
CA 2077245	C	20021126		
IL 102997	A	19960912	IL 1992-102997	19920831
JP 05221811	A	19930831	JP 1992-237248	19920904
JP 3363482	B2	20030108		
AU 9223536	A	19930318	AU 1992-23536	19920911
AU 652855	B2	19940908		
US 5260326	A	19931109	US 1992-943677	19920911
ZA 9206921	A	19940311	ZA 1992-6921	19920911
US 5317027	A	19940531	US 1993-87317	19930708
US 5399579	A	19950321	US 1994-188012	19940128
US 5484779	A	19960116	US 1994-319027	19941006

PRIORITY APPLN. INFO.:

AB Synergistic fungicidal compns. comprise Me (E)- α -methoximino-2-[(2-methylphenoxy)methyl]phenylacetate (I) and a 2nd fungicide, such as (Z)-2-[(1,2,4-triazol-1-ylmethyl)-2-(4-fluorophenyl)-3-(2-chlorophenyl)oxirane (II), hexaconazole, flutriafol, bitertanol, etc. A mixture of 0.01% I and 0.03% II controlled Erysiphe graminis tritici on wheat by 75%, whereas the components by themselves were much less effective.

IT 147418-87-9
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)

(fungicide, synergistic)

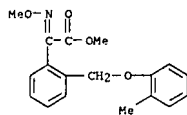
RN 147418-87-9 CAPLUS

CN Benzeneacetic acid, α -(methoxymino)-2-[(2-methylphenoxy)methyl]-, methyl ester, mixt. with 1-[[3-(2-chlorophenyl)-2-(4-fluorophenyl)oxiranyl]methyl]-1H-1,2,4-triazole (9CI) (CA INDEX NAME)

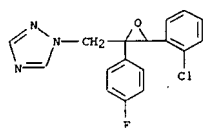
CH 1

CRN 144167-04-4

CMF C18 H19 N O4



CH 2

CRN 135319-73-2
CMF C17 H13 Cl F N3 O

ACCESSION NUMBER: 1993:141820 CAPLUS

DOCUMENT NUMBER: 118:141820

TITLE: Synergistic fungicidal mixture comprising triazole and imidazole derivative

INVENTOR(S): Seele, Rainer; Saur, Reinhold; Schelberger, Klaus;

Speer, John Bryan

PATENT ASSIGNEE(S): BASF A.-G., Germany

SOURCE: Ger. Offen., 5 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 4122474	A1	19930107	DE 1991-4122474	19910706
CA 2071601	A1	19930107	CA 1992-2071601	19920618
CA 2071601	C	20021119		
JP 05186307	A	19930727	JP 1992-162398	19920622
JP 3292382	B2	20020617		
US 5231110	A	19930727	US 1992-903758	19920625
EP 522403	A1	19930113	EP 1992-110966	19920629
EP 522403	B1	19940601		
R: AT, BE, CH, DE, DK, ES, FR, GR, GR, IT, LI, NL, PT, SE				
AT 106184	T	19940615	AT 1992-110966	19920629
ES 2054515	T3	19940801	ES 1992-110966	19920629
ZA 9204951	A	19930103	ZA 1992-4951	19920703
AU 9219390	A	19930107	AU 1992-19390	19920703
AU 644531	B2	19931209		
HU 61438	A2	19930128	HU 1992-2231	19920703
HU 210773	B	19950728		

PRIORITY APPLN. INFO.:

AB Mixts. of 2-[(1,2,4-triazol-1-ylmethyl)-2-(4-fluorophenyl)-3-(2-chlorophenyl)oxirane with 1-[N-propyl-N-[2-(2,4,6-trichlorophenoxy)ethyl]carbamoyl]imidazole are synergistic fungicides (no data).

IT 146522-66-9
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)

(as fungicide, synergistic)

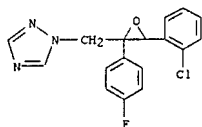
RN 146522-66-9 CAPLUS

CN 1H-imidazole-1-carboxamide, N-propyl-N-[2-(2,4,6-trichlorophenoxy)ethyl]-, mixt. with 1-[[3-(2-chlorophenyl)-2-(4-fluorophenyl)oxiranyl]methyl]-1H-1,2,4-triazole (9CI) (CA INDEX NAME)

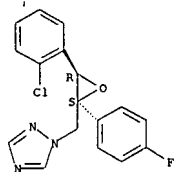
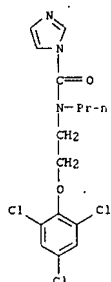
CH 1

CRN 135319-73-2

CMF C17 H13 Cl F N3 O

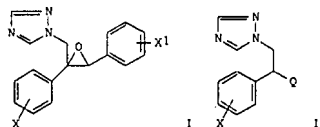


CM 2

CRN 67747-09-5
CMF C15 H16 Cl3 N3 O2

ACCESSION NUMBER: 1993:101966 CAPLUS
DOCUMENT NUMBER: 118:101966
TITLE: Process for the preparation of cis-2-(1H-1,2,4-triazol-1-yl-methyl)-2,3-bis(halo)phenyl)oxiranes
INVENTOR(S): Seele, Rainer; Eicken, Karl; Hickmann, Eckhard; Keil, Michael; Kober, Reiner
PATENT ASSIGNEE(S): BASF A.-G., Germany
SOURCE: Eur. Pat. Appl., 9 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 515876	A2	19921202	EP 1992-107673	19920507
EP 515876	A3	19921216		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, PT, SE				
DE 4117877	A1	19921203	DE 1991-4117877	19910531
PRIORITY APPLN. INFO.: DE 1991-4117877 A 19910531				
OTHER SOURCE(S): CASREACT 118:101966; MARPAT 118:101966				
GI				

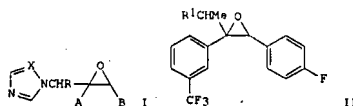


AB Title compds. (I; X, X1 = F, Cl, Br) were prepared by (a) reaction of II (Q = H) with a X2C6H3CH2S+R1R2 salt [R1, R2 = (cyclo)alkyl, (halo)benzyl, aryl; R1R2 = atoms to complete a 5-6 membered ring] or (b) reaction of II [Q = S+R1R2 X2 (X2 = halo)] with X1C6H4CHO, optionally in the presence of an inert solvent. Thus, a 0° mixture of KOH and Me2S in MeCN was treated dropwise with a mixture of 2-ClC6H4CH2Cl and 2-(1H-1,2,4-triazol-1-yl)-4'-fluoroacetophenone in MeCN; the mixture was kept 2 h at room temperature to give 16% cis-2-(1H-1,2,4-triazol-1-ylmethyl)-2-(4-fluorophenyl)-3-(2-chlorophenyl)oxirane.
IT 133855-98-8P
RL: SPN (Synthetic preparation); PREP (Preparation)
RN 133855-98-8 CAPLUS
CN 1H-1,2,4-Triazole, 1-[[[(2R,3S)-3-(2-chlorophenyl)-2-(4-fluorophenyl)-2-oxiranylmethyl]-, rel- (CA INDEX NAME)]

Relative stereochemistry.

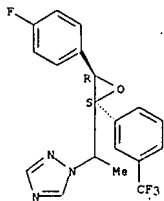
ACCESSION NUMBER: 1992:407929 CAPLUS
DOCUMENT NUMBER: 117:7929
TITLE: Preparation of (azolomethyl)oxiranes as agrochemical fungicides
INVENTOR(S): Seele, Rainer; Rentzes, Costin; Ammermann, Eberhard; Lorenz, Gisela
PATENT ASSIGNEE(S): BASF A.-G., Germany
SOURCE: Eur. Pat. Appl., 20 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 474045	A1	19920311	EP 1991-114061	19910822
EP 474045	B1	19951018		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE				
DE 4028392	A1	19920312	DE 1990-4028392	19900907
CA 2048974	A1	19920308	CA 1991-2048974	19910812
JP 04230680	A	19920819	JP 1991-209264	19910821
JP 3164608	B2	20010508		
AT 129243	T	19951115	AT 1991-114061	19910822
ES 2079008	T3	19960101	ES 1991-114061	19910822
AU 8183685	A	19920312	AU 1991-83685	19910906
AU 637258	B2	19930520		
HU 58466	A2	19920330	HU 1991-2893	19910906
HU 210748	B	19950728		
ZA 9107085	A	19930308	ZA 1991-7085	19910906
PRIORITY APPLN. INFO.: DE 1990-4028392 A 19900907				
OTHER SOURCE(S): MARPAT 117:7929				
GI				



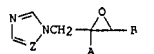
AB Title compds. (I; A, B = (substituted) (cyclo)alkyl, cycloalkenyl, (hetero)aryl; R = alkyl; X = CH, N) were prepared as agrochem. fungicides (no data). Thus, 3-(F3C)C6H4CH2COMe was condensed with 4-FC6H4CHO and the product epoxidized to give, after reduction and esterification, oxirane II (R1 = OSO2Me) which was condensed with triazole to give II (R1 = triazole).
IT 141743-83-1P
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of, as agrochem. fungicide)
RN 141743-83-1 CAPLUS
CN 1H-1,2,4-Triazole, 1-[1-[3-(4-fluorophenyl)-2-[3-

Relative stereochemistry.



L17 ANSWER 10 OF 25 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1991:656172 CAPLUS
DOCUMENT NUMBER: 115:256172
TITLE: Preparation of fungicidal azolymethyloxiranes
INVENTOR(S): Seele, Rainer; Goetz, Norbert; Kober, Reiner; Zipperer, Bernhard; Ammermann, Eberhard; Lorenz, Gisela; Gebhardt, Joachim
PATENT ASSIGNEE(S): Germany
SOURCE: Can. Pat. Appl., 44 pp.
CODEN: CPXXER
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

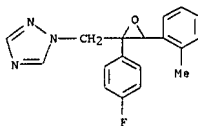
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CA 2024404	A1	19910310	CA 1990-2024404	19900831
DE 3930166	A1	19910321	DE 1989-3930166	19890909
DE 3942333	A1	19910627	DE 1989-3942333	19891221
PRIORITY APPLN. INFO.:			DE 1989-3930166	A 19890909
OTHER SOURCE(S):		MARPAT 115:256172	DE 1989-3942333	A 19891221
GI				



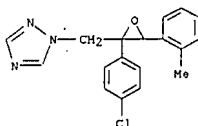
AB The title compds. (I; A, B = (un)substituted 5- or 6-membered heteroaryl, C1-8 alkyl, C3-8 cycloalkyl, tetrahydropyranyl, tetrahydrothiopyranyl, biphenyl, naphthyl, or PhCH₂; provided that unless B = o-MeC₆H₄, at least one of A and B = 5- or 6-membered heteroaryl; Z = CH, N; excluding A = 4-FC₆H₄, B = pyrid-3-yl, and Z = CH), useful as plant fungicides, are prepared. Thus, a mixture of 0.07 mol 1,2,4-triazole and 0.12 mol K₂CO₃ in DMF

was heated for 30 min at 50° and after cooling to approx. 20°, a solution of 0.06 mol cis-2-mesyloxymethyl-2-(4-fluorophenyl)-3-(2-methylphenyl)oxirane in DMF was added and the mixture was stirred for 12 h at room temperature to give 82% I (A = 4-FC₆H₄, B = 2-MeC₆H₄, Z = N (II). II, applied as a 0.006 weight% spray liquor, controlled 100% wheat brown rust vs. 50% for the known I (A = 4-ClC₆H₄, B = tert-BuC₆H₄, Z = N). A total of 9 I were prepared.

IT 134747-83-4P 134747-85-6P
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of, as agrochem. fungicide)
RN 134747-83-4 CAPLUS
CN 1H-1,2,4-Triazole, 1-[[2-(4-fluorophenyl)-3-(2-methylphenyl)oxiranyl]methyl]- (9CI) (CA INDEX NAME)

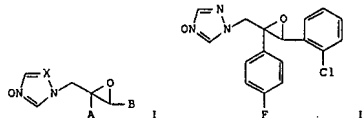


RN 134747-85-6 CAPLUS
CN 1H-1,2,4-Triazole, 1-[[2-(4-chlorophenyl)-3-(2-methylphenyl)oxiranyl]methyl]- (9CI) (CA INDEX NAME)



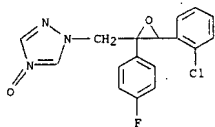
L17 ANSWER 11 OF 25 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1991:583310 CAPLUS
DOCUMENT NUMBER: 115:183310
TITLE: Preparation of (azolyl)methyl oxirane N-oxides as agrochemical fungicides and plant growth regulators
INVENTOR(S): Seele, Rainer; Hickmann, Eckhard; Ammermann, Eberhard; Lorenz, Gisela
PATENT ASSIGNEE(S): BASF A.-G., Germany
SOURCE: Ger. Offen., 14 pp.
CODEN: GWXXRX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3936824	A1	19910508	DE 1989-3936824	19891104
EP 427059	A2	19910515	EP 1990-120546	19901026
EP 427059	A3	19911211		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE				
JP 03153681	A	19910701	JP 1990-288619	19901029
US 5104438	A	19920414	US 1990-606950	19901031
AU 9065709	A	19910509	AU 1990-65709	19901102
AU 628230	B2	19920910		
HU 55604	A2	19910628	HU 1990-7012	19901102
HU 208234	B	19930928		
ZA 9008792	A	19920729	ZA 1990-8792	19901102
CA 2029210	A1	19910505	CA 1990-2029210	19901104
PRIORITY APPLN. INFO.:			DE 1989-3936824	A 19891104
OTHER SOURCE(S):		MARPAT 115:183310		
GI				



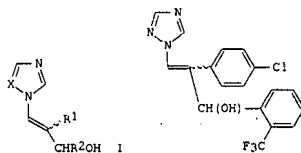
AB Title compds. (I; A, B = (substituted) alkyl, cycloalkyl, tetrahydropyranyl, PhCH₂, norbornyl, naphthyl, biphenyl Ph; X = CH, N), were prepared as agrochem. fungicides and plant growth regulators (no data). Thus, a mixture of 2-(1,2,4-triazol-1-ylmethyl)-2-(4-fluorophenyl)-3-(2-chlorophenyl)oxirane, maleic anhydride, and pyridine N-oxide in CICH₂CH₂Cl at 0° was treated with approx. 50% H₂O₂ and the mixture was kept 2 h at 40-50° to give 30% title compound II.

IT 135656-94-9P
RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of, as agrochem. fungicide and plant growth regulator)
RN 135656-94-9 CAPLUS
CN 1H-1,2,4-Triazole, 1-[[3-(2-chlorophenyl)-2-(4-fluorophenyl)oxiranyl]methyl]-, 4-oxide (9CI) (CA INDEX NAME)

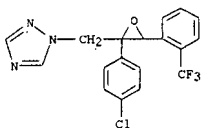


ACCESSION NUMBER: 1991:536100 CAPLUS
 DOCUMENT NUMBER: 115:136100
 TITLE: Preparation of (hydroxymethyl)vinyltriazoles as agrochemical fungicides and plant growth regulators
 INVENTOR(S): Seele, Rainer; Rehr, Wolfgang; Zipperer, Bernhard; Karbach, Stefan; Kueb, Lothar; Ammermann, Eberhard; Lorenz, Gisela; Rademacher, Wilhelm; Jung, Johann
 PATENT ASSIGNEE(S): BASF A.-G., Germany
 SOURCE: Eur. Pat. Appl., 21 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 420020	A2	19910403	EP 1990-118007	19900919
EP 420020	A3	19920527		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE				
DE 3932387	A1	19910411	DE 1989-3932387	19890928
US 5122531	A	19920616	US 1990-586154	19900921
JP 03130267	A	19910604	JP 1990-254371	19900926
CA 2026385	A1	19910329	CA 1990-2026385	19900927
HU 55007	A2	19910429	HU 1990-6249	19900927
HU 206330	B	19921028		
PRIORITY APPLN. INFO.:			DE 1989-3932387	A 19890928
OTHER SOURCE(S):			CASREACT 115:136100; MARPAT 115:136100	
GI				

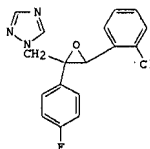


AB Title compds. [I; R1, R2 = (substituted) (cyclo)alkyl, tetrahydropyranyl, pyridyl, naphthyl, biphenyl, phenyl, Ph; X = CH, N], were prepared. Thus, 2-[(1,2,4-triazol-1-yl)-2-(4-chlorophenyl)-3-(2-trifluoromethylphenyl)oxirane was refluxed with NaOMe in MeOH to give 95% title compound II. Several I as 0.05% sprays gave 90% control of Pyrenophora teres on barley seedlings; they were also effective at reducing height of wheat, barley, and with corresponding increase in chlorophyll content and crop yield.
 IT 131970-23-5
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (base-catalyzed rearrangement of, in preparation of vinyltriazole agrochem.)
 RN 131970-23-5 CAPLUS
 CN 1H-1,2,4-Triazole, 1-[[2-(4-chlorophenyl)-3-(2-trifluoromethylphenyl)oxiranyl]methyl]- (9C1) (CA INDEX NAME)



ACCESSION NUMBER: 1991:514516 CAPLUS
 DOCUMENT NUMBER: 115:114516
 TITLE: Stereoselective preparation of erythro-1-bromo-3-chloro-1,2-diaryl-2-propanols and their conversion into azolymethyloxiranes
 INVENTOR(S): Kober, Rainer; Isak, Heinz; Seele, Rainer
 PATENT ASSIGNEE(S): BASF A.-G., Germany
 SOURCE: Eur. Pat. Appl., 9 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

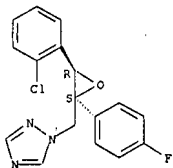
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 431450	A2	19910612	EP 1990-122697	19901128
EP 431450	A3	19920708		
EP 431450	B1	19940413		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE				
DE 3940492	A1	19910613	DE 1989-3940492	19891207
AT 104266	T	19940415	AT 1990-122697	19901128
ES 2063230	T3	19950101	ES 1990-122697	19901128
JP 03251547	A	19911111	JP 1990-404654	19901205
JP 2941433	B2	19900825		
CA 2031686	A1	19910608	CA 1990-2031686	19901206
CA 2031686	C	20010424		
HU 56051	A2	19910729	HU 1990-8102	19901206
HU 206491	B	19921130		
US 5081317	A	19920114	US 1990-623578	19901207
KR 160291	B1	19990115	KR 1990-20111	19901207
PRIORITY APPLN. INFO.:			DE 1989-3940492	A 19891207
OTHER SOURCE(S):			EP 1990-122697	A 19901128
GI				



AB erythro-1-bromo-3-chloro-1,2-diaryl-2-propanols (R, R1 = Ph, substituted Ph) were prepared stereoselectively by photochem. or free radical bromination of ClCH2CH(OH)CH2R1. Thus, Grignard reaction of ClCH2COC6H4F-4 with 2-ClC6H4CH2Cl gave ClCH2C(C6H4F-4)(OH)CH2C6H4Cl-2 which was photochem. brominated with 1,3-dibromo-5,5-dimethylhydantoin to give ClCH2C(C6H4F-4)(OH)CHBrC6H4Cl-2 (I) in an erythro:three ratio of 4:1. erythro-I was treated with Na 1,2,3-triazole to give the oxirane

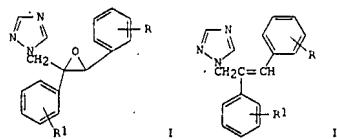
L17 ANSWER 13 OF 25 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 II.
 IT 133855-98-8P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 RN 133855-98-8 CAPLUS
 CN 1H-1,2,4-Triazole, 1-[[[(2R,3S)-3-(2-chlorophenyl)-2-(4-fluorophenyl)-2-oxiranyl]methyl]-, rel- (CA INDEX NAME)

Relative stereochemistry.



L17 ANSWER 14 OF 25 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1991:514510 CAPLUS
 DOCUMENT NUMBER: 115:114510
 TITLE: Preparation of cis-2-(1H-1,2,4-triazol-1-ylmethyl)-2,3-di(halophenyl)oxirane
 INVENTOR(S): Hickmann, Eckhard; Seele, Rainer; Kober, Rainer; Isak, Heinz
 PATENT ASSIGNEE(S): BASF A.-G., Germany
 SOURCE: Ger. Offen., 6 pp.
 CODEN: GWXXBX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

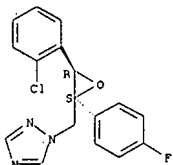
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3936821	A1	19910508	DE 1989-3936821	19891104
CA 2028650	A1	19910505	CA 1990-2028650	19901026
CA 2028650	C	20030930		
EP 427061	A2	19910515	EP 1990-120548	19901026
EP 427061	A3	19920102		
EP 427061	B1	19941228		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE*				
ES 2066089	T3	19950301	ES 1990-120548	19901026
JP 03153682	A	19910701	JP 1990-295569	19901102
JP 2983054	B2	19991129		
RU 2071473	C1	19970110	RU 1990-4831490	19901102
KR 157314	B1	19981116	KR 1990-17840	19901103
US 5245042	A	19930914	US 1982-874227	19920427
PRIORITY APPLN. INFO.:			DE 1989-3936821	A 19891104
			US 1990-600715	B1 19901022
OTHER SOURCE(S):			CASREACT 115:114510; MARPAT 115:114510	
GI				



AB Oxiranes I (R, R1 = halogen) were prepared by peracid oxidation of the propenes II followed by treatment with more than the stoichiometric amount of reducing agent required to destroy the residual peracid. Thus, II (R = 2-Cl, R1 = 4-F) was treated with maleic anhydride and H2O2, in ClCH2CH2Cl for 8 h. The product was treated with 38% NaHSO3 corresponding to an excess of 1385 mol% to give 87% I (R = 2-Cl, R1 = 4-F).
 IT 133855-98-8P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 RN 133855-98-8 CAPLUS

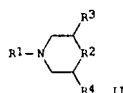
L17 ANSWER 14 OF 25 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 CN 1H-1,2,4-Triazole, 1-[[[(2R,3S)-3-(2-chlorophenyl)-2-(4-fluorophenyl)-2-oxiranyl]methyl]-, rel- (CA INDEX NAME)

Relative stereochemistry.



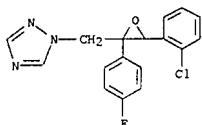
L17 ANSWER 15 OF 25 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1991:466798 CAPLUS
 DOCUMENT NUMBER: 115:66798
 TITLE: Synergistic fungicidal compositions containing a triazolylmethylidiphenyloxirane derivative.
 INVENTOR(S): Seele, Rainer; Loecher, Friedrich; Saur, Reinhold; Ammermann, Eberhard; Lorenz, Gisela
 PATENT ASSIGNEE(S): BASF A.-G., Germany
 SOURCE: Ger. Offen., 7 pp.
 CODEN: GWXXEX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3935113	A1	19910425	DE 1989-3935113	19891021
EP 425857	A1	19910508	EP 1990-119475	19901011
EP 425857	B1	19930210		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE				
AT 85499	T	19930215	AT 1990-119475	19901011
ES 2054192	T3	19940801	ES 1990-119475	19901011
JP 03135902	A	19910610	JP 1990-273517	19901015
JP 2858915	B2	19990217		
IL 96016	A	19950124	IL 1990-96016	19901016
CA 2028183	A1	19910422	CA 1990-2028183	19901019
CA 2028183	C	20000801		
AU 9064785	A	19910426	AU 1990-64785	19901019
AU 628675	B2	19920917		
HU 55195	A2	19910528	HU 1990-6511	19901019
HU 207647	B	19930528		
US 5106848	A	19920421	US 1990-599886	19901019
ZA 9008381	A	19920524	ZA 1990-8381	19901019
US 5190943	A	19930302	US 1991-778243	19911017
US 5229397	A	19930720	US 1992-946658	19920918
PRIORITY APPLN. INFO.:			DE 1989-3935113	A 19891021
			EP 1990-119475	A 19901011
			US 1990-599886	A3 19901019
			US 1991-778243	A3 19911017
OTHER SOURCE(S):			MARPAT 115:66798	
GI				



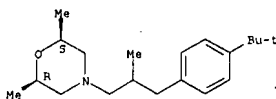
AB The title fungicides contain 2-(1,2,4-triazol-1-yl-methyl)-2-(4-fluorophenyl)-3-(2-chlorophenyl)oxirane (I) and a heterocyclic fungicide II (R1 = tridecyl or p-tert-butylphenyl; R2 = CH2, O, R3, R4 = Me, H) or its salt or metal complex, such as fenpropimorph, fenpropidine or tridemorph. The compounds are especially useful for combating fungi on materials, surfaces, plants, and seeds. A composition containing 0.01% I and 0.03% fenpropimorph demonstrated 61% control of Erysiphe graminis in

L17 ANSWER 15 OF 25 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 wheat.
 IT 135319-74-3 135319-75-4 135319-76-5
 RL: BIOL (Biological study)
 (synergistic fungicide)
 RN 135319-74-3 CAPLUS
 CN Morpholine, 4-[3-[4-[(1,1-dimethylethyl)phenyl]-2-methylpropyl]-2,6-dimethyl-, (2R,6S)-rel-, mixt. with 1-[[3-(2-chlorophenyl)-2-(4-fluorophenyl)oxiranylmethyl]-1H-1,2,4-triazole (9CI) (CA INDEX NAME)
 CM 1
 CRN 135319-73-2
 CMF C17 H13 Cl F N3 O



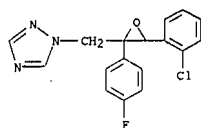
CM 2
 CRN 67564-91-4
 CMF C20 H33 N O

Relative stereochemistry.

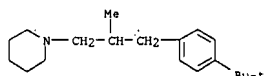


RN 135319-75-4 CAPLUS
 CN Piperidine, 1-[3-[4-[(1,1-dimethylethyl)phenyl]-2-methylpropyl]-, mixt. with 1-[[3-(2-chlorophenyl)-2-(4-fluorophenyl)oxiranylmethyl]-1H-1,2,4-triazole (9CI) (CA INDEX NAME)
 CM 1
 CRN 135319-73-2
 CMF C17 H13 Cl F N3 O

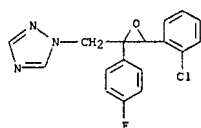
L17 ANSWER 15 OF 25 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



CM 2
 CRN 67306-00-7
 CMF C19 H31 N



RN 135319-76-5 CAPLUS
 CN 1H-1,2,4-Triazole, 1-[[3-(2-chlorophenyl)-2-(4-fluorophenyl)oxiranylmethyl]-, mixt. with tridemorph (9CI) (CA INDEX NAME)
 CM 1
 CRN 135319-73-2
 CMF C17 H13 Cl F N3 O



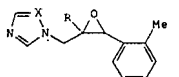
CM 2
 CRN 81412-43-3
 CMF Unspecified
 CCI MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

L17 ANSWER 16 OF 25 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1991:449698 CAPLUS
 DOCUMENT NUMBER: 115:49698
 TITLE: Preparation of 2-azolylmethyl-3-(alpha-methylphenyl) oxiranes as agrochemical fungicides
 INVENTOR(S): Seale, Rainer; Goetz, Norbert; Kober, Reiner; Zipperer, Bernhard; Ammermann, Eberhard; Lorenz, Gisela
 PATENT ASSIGNEE(S): BASF A.-G., Germany
 SOURCE: Ger., Offen., 14 pp.
 CODEN: GWXXBX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

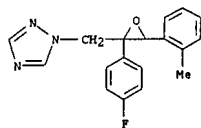
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3930166	A1	19910321	DE 1989-3930166	19890909
CA 2024404	A1	19910310	CA 1990-2024404	19900831
EP 421125	A2	19910410	EP 1990-116709	19900831
EP 421125	A3	19920408		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE				
AU 9062275	A	19910314	AU 1990-62275	19900907
AU 637820	B2	19930610		
HU 54460	A2	19910328	HU 1990-5832	19900907
HU 207642	B	19930528		
JP 03169879	A	19910723	JP 1990-236006	19900907
JP 3026828	B2	20000327		
ZA 9007129	A	19920527	ZA 1990-7129	19900907
US 5162357	A	19921110	US 1990-578400	19900907
KR 174267	B1	19990218	KR 1990-14180	19900908
PRIORITY APPLN. INFO.:			DE 1989-3930166	19890909
			DE 1989-3942333	A 19891221

OTHER SOURCE(S): MARPAT 115:49698
 GI

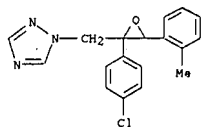


AB Title compds. [I: R = (halo-, NO2-, PhO-, amino-, alkyl-, alkoxy-, or haloalkyl-substituted) alkyl, Ph, biphenyl, naphthyl, PhCH2, tetrahydropyranyl, cycloalkyl; X = N, CH], were prepared. Thus, a mixture of 1,2,4-triazole and K2CO3 in DMF was heated to 50° for 30 min, cooled, and treated with cis-2-methylsulfonylmethyl-2-(4-fluorophenyl)-3-(2-methylphenyl)oxirane in DMF. The mixture was stirred 12 h to give cis-I (R = 4-FC6H4, X = N). The latter gave as a 0.006% spray 100% control of Puccinia recondita on wheat seedlings.
 IT 134747-83-4P 134747-85-6P
 RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) [preparation of, as agrochem. fungicide]
 RN 134747-83-4 CAPLUS

L17 ANSWER 16 OF 25 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 CN 1H-1,2,4-Triazole, 1-[[2-(4-fluorophenyl)-3-(2-methylphenyl)oxiranylmethyl]- (9CI) (CA INDEX NAME)



RN 134747-85-6 CAPLUS
 CN 1H-1,2,4-Triazole, 1-[[2-(4-chlorophenyl)-3-(2-methylphenyl)oxiranylmethyl]- (9CI) (CA INDEX NAME)



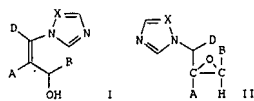
L17 ANSWER 17 OF 25 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1991:164241 CAPLUS
DOCUMENT NUMBER: 114:164241
TITLE: Preparation of 1-halovinylazoles and fungicides and plant-growth regulators containing them
INVENTOR(S): Seele, Rainer; Kober, Rainer; Goetz, Norbert; Saupe, Thomas; Ammermann, Eberhard; Lorenz, Gisela; Rademacher, Wilhelm; Jung, Johann
PATENT ASSIGNEE(S): BASF A.-G., Germany
SOURCE: Eur. Pat. Appl., 19 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 394843	A1	19901031	EP 1990-107439	19900419
EP 394843	B1	19931215		
R: AT, RE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE				
DE 3913725	A1	19901031	DE 1989-3913725	19890426
CA 2013140	A1	19901026	CA 1990-2013140	19900327
US 5084471	A	19920128	US 1990-500728	19900328
JP 02295976	A	19901206	JP 1990-94182	19900411
AT 98639	T	19940115	AT 1990-107439	19900419
ES 2060848	T3	19941201	ES 1990-107439	19900419
AU 9053807	A	19901101	AU 1990-53807	19900423
AU 621730	B2	19920319		

PRIORITY APPLN. INFO.: DE 1989-3913725 A 19890426
EP 1990-107439 A 19900419

OTHER SOURCE(S): MARPAT 114:164241
GI



AB 1-Halovinylazole deriva. I (A, B = (substituted) C1-8 alkyl, C5-8 cycloalkyl, C5-8 cycloalkenyl, pyridyl, tetrahydropyranyl, naphthyl, biphenyl or Ph; D = Cl, Br; X = CH, N) were prepared. Thus, reaction of cis-2-formyl-2-(4-fluorophenyl)-3-(2-chlorophenyl)oxirane (preparation given) with a solution of 1,2,4-triazole in CH₂Cl₂ containing SOCI₂ gave (triazolylchloromethyl)oxirane cis-II (A = 4-FC6H₄, B = 2-ClC₆H₄, D = Cl, X = N) as a mixture of diastereomers which was refluxed in a solution of NaOMe in MeOH to give the corresponding I (II). As a foliar spray (0.05% by weight), III showed 90% control of Pyricularia oryzae on rice vs. 40% control by 1-(1,2,4-triazol-1-yl)-2-(4-chlorophenyl)-3-(2,4-dichlorophenyl)-1-propan-3-ol (IV). III was also more effective than IV as a plant growth inhibitor.

IT 133098-20-1P 133098-21-2P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT

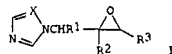
L17 ANSWER 18 OF 25 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1991:81845 CAPLUS
DOCUMENT NUMBER: 114:81845
TITLE: Preparation of herbicidal and plant growth regulating (azolylmethyl)oxiranes
INVENTOR(S): Seele, Rainer; Kober, Rainer; Karbach, Stefan; Sauter, Hubert; Wuerzler, Bruno; Westphalen, Karl Otto; Rohr, Wolfgang; Rademacher, Wilhelm; Jung, Johann Prof
PATENT ASSIGNEE(S): BASF A.-G., Germany
SOURCE: Eur. Pat. Appl., 27 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 388871	A1	19900926	EP 1990-105196	19900320
EP 388871	B1	19930113		
R: BE, CH, DE, ES, FR, GB, IT, LI, NL				
DE 3922770	A1	19910124	DE 1989-3922770	19890711
DE 3931651	A1	19910404	DE 1989-3931651	19890922
CA 2012596	A1	19900921	CA 1990-2012596	19900320
HU 53488	A2	19901128	HU 1990-1618	19900320
HU 204665	B	19920228		
ES 2054128	T3	19940801	ES 1990-105196	19900320
JP 03027378	A	19910205	JP 1990-69939	19900322

PRIORITY APPLN. INFO.: DE 1989-3909222 A 19890321
DE 1989-3922770 A 19890711
DE 1989-3931651 A 19890922

OTHER SOURCE(S): CASREACT 114:81845; MARPAT 114:81845
GI



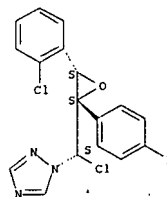
AB The title compds. [I; R₁ = H, halo; R₂, R₃ = (un)substituted cycloalkyl, Ph, phenylalkyl, etc.; X = CH, N] were prepared. Thus, 2-ClC₆H₄CHO was stirred 10 h with 4-FC₆H₄CH₂CHO in MeOH containing aqueous NaOH to give (2)- and (E)-2-ClC₆H₄CH=C(CH₃)C₆H₄F-4, the latter of which was stirred 6 h with H₂O₂ in MeOH to give cis-2-formyl-2-(4-fluorophenyl)-3-(2-chlorophenyl)oxirane. The latter was added to a solution of 1,2,4-triazole in CH₂Cl₂ which had been treated with SOCI₂ and the whole stirred 12-15 h to give diastereomeric I (R₁ = Cl, R₂ = 4-FC₆H₄, R₃ = 2-ClC₆H₄, X = N). I (R₃ = 2-FC₆H₄, others as given) limited growth height of summer barley plants to 77.0% that of controls at 6 mg/500 mL soil preemergent.

IT 88630-29-9P 88630-30-2P 88727-93-9P
88727-94-0P 106147-23-3P 106324-96-3P
106324-98-5P 106325-07-9P 106325-09-1P
106325-11-5P 106325-12-6P 106339-38-2P
122986-09-3P 122986-00-9P 122986-06-5P
122986-09-8P 122986-13-4P 122986-17-8P
122986-43-0P 122986-45-2P 122986-60-1P
122986-62-3P 122986-66-7P 122986-69-0P

L17 ANSWER 17 OF 25 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

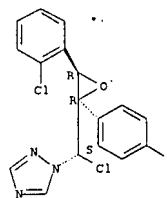
(Reactant or reagent)
(prepn. and reaction of, in prepn. of fungicides and plant growth regulators)
RN 133098-20-1 CAPLUS
CN 1H-1,2,4-Triazole, 1-[chloro[3-(2-chlorophenyl)-2-(4-fluorophenyl)oxiranyl]methyl]-, [2a(R'),3a]- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 133098-21-2 CAPLUS
CN 1H-1,2,4-Triazole, 1-[chloro[3-(2-chlorophenyl)-2-(4-fluorophenyl)oxiranyl]methyl]-, [2a(S'),3a]- (9CI) (CA INDEX NAME)

Relative stereochemistry.



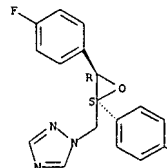
L17 ANSWER 18 OF 25 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

122986-72-5P 128075-95-6P 132082-45-2P
132082-50-9P 132082-51-0P 132082-52-1P
132082-53-2P 132082-56-5P 132082-57-6P
132082-58-7P 132082-61-2P 132082-64-5P
132082-66-7P 132082-68-9P 132082-69-0P
132082-70-3P 132082-71-4P 132082-74-7P
132082-77-0P 132082-78-1P 132082-79-2P
132082-81-6P 132082-82-7P 132082-83-8P
132083-09-1P 132083-12-6P 132083-17-1P
132083-18-2P 132083-20-6P 132083-22-8P
132083-25-1P 132083-28-4P 132083-30-8P
132083-55-7P 132083-69-3P 132083-72-8P
132083-73-9P 132083-74-0P 132083-76-2P
132083-78-4P 132083-88-6P 13855-98-8P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (prepn. of, as herbicide and plant growth regulator)

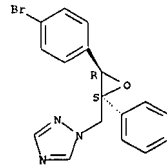
RN 88630-29-9 CAPLUS
CN 1H-1,2,4-Triazole, 1-[[3-(4-chlorophenyl)-3-(4-fluorophenyl)oxiranyl]methyl]-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



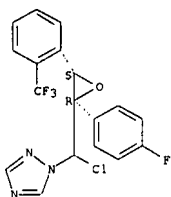
RN 88630-30-2 CAPLUS
CN 1H-1,2,4-Triazole, 1-[[3-(4-bromophenyl)-2-(4-chlorophenyl)oxiranyl]methyl]-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



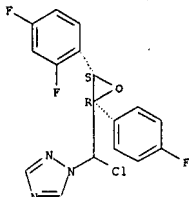
RN 88727-93-9 CAPLUS
CN 1H-1,2,4-Triazole, 1-[[2-(4-chlorophenyl)-3-(4-

Relative stereochemistry.



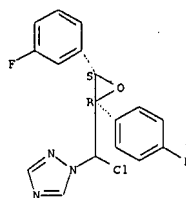
RN 132083-74-0 CAPLUS
CN 1H-1,2,4-Triazole, 1-[[chloro[3-(2,4-difluorophenyl)-2-(4-fluorophenyl)oxiranyl]methyl]-, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



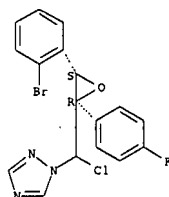
RN 132083-76-2 CAPLUS
CN 1H-1,2,4-Triazole, 1-[[chloro[2-(4-fluorophenyl)-3-(3-fluorophenyl)oxiranyl]methyl]-, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



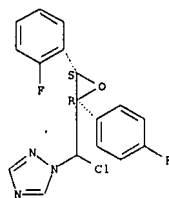
RN 132083-78-4 CAPLUS
CN 1H-1,2,4-Triazole, 1-[[[3-(2-bromophenyl)-2-(4-fluorophenyl)oxiranyl]chloromethyl]-, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



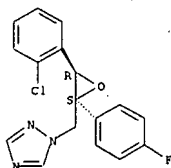
RN 132083-88-6 CAPLUS
CN 1H-1,2,4-Triazole, 1-[[chloro[3-(2-fluorophenyl)-2-(4-fluorophenyl)oxiranyl]methyl]-, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



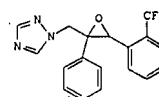
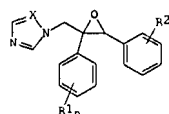
RN 133855-98-8 CAPLUS
CN 1H-1,2,4-Triazole, 1-[[[(2R,3S)-3-(2-chlorophenyl)-2-(4-fluorophenyl)-2-oxiranyl]methyl]-, rel- (CA INDEX NAME)

Relative stereochemistry.



ACCESSION NUMBER: 1991:81844 CAPLUS
DOCUMENT NUMBER: 114:81844
TITLE: Preparation of azolylmethylidiphenyloxiranes as agrochemical fungicides
INVENTOR(S): Karbach, Stefan; Seele, Rainer; Wegner, Guenter; Smuda, Hubert; Bireckoven, Bernd; Lorenz, Gisela; Ammermann, Eberhard
PATENT ASSIGNEE(S): BASF A.-G., Germany
SOURCE: Eur. Pat. Appl., 13 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 386557	A1	19900912	EP 1990-103616	19900224
EP 386557	B1	19920610		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE				
DE 3907729	A1	19900913	DE 1989-3907729	19890310
IL 93443	A	19940530	IL 1990-93443	19900219
AT 77086	T	19920615	AT 1990-103616	19900224
ES 2036852	T3	19930601	ES 1990-103616	19900224
CA 2011087	A1	19900910	CA 1990-2011087	19900226
CA 2011087	C	20001212		
AU 9051178	A	19900913	AU 1990-51178	19900309
AU 621721	B2	19920319		
JP 02268182	A	19901101	JP 1990-56792	19900309
JP 2947287	B2	19990913		
HU 53782	A2	19901228	HU 1990-1383	19900309
HU 206434	B	19921130		
ZA 9001834	A	19911127	ZA 1990-1834	19900309
PRIORITY APPLN. INFO.:				
OTHER SOURCE(S): CASREACT 114:81844; MARPAT 114:81844				
GI				

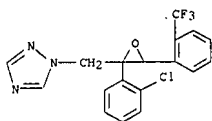


AB The title compds. [I: R1 = H, halo, NO2, Ph, PhO, alkyl, alkoxy, haloalkyl, haloalkoxy; R12 = atoms to complete a (R1-substituted) naphthyl; R2 = o- or p-CF3; X = CH, N]. were prepared. Thus, 2-F3CC6H4CHO was condensed with PhCH2CHO in MeOH/H2O containing NaOH to give 901 E, 2-2-phenyl-3-(2-trifluoromethylphenyl)propanal. The latter was epoxidized with 50% H2O2/NaOH in MeOH/H2O and the product was treated in situ with NaBH4 to give 62% cis-2-hydroxymethyl-2-phenyl-3-(2-trifluoromethylphenyl)oxirane. The latter was mesylated and the

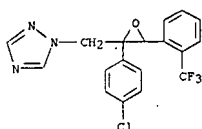
L17 ANSWER 19 OF 25 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 product in N-methylpyrrolidone was added to a mixt. of 1,2,4-triazole and NaOH in N-methylpyrrolidone and the mixt. was stirred 12 h at room temp. to give 75% title compd. cis-II. The latter as a 0.05% spray gave 90-100% control of Botrytis cinerea on paprika.

IT 131970-22-4P 131970-23-5P 131970-24-6P
 RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); RSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of, as agrochem. fungicide)

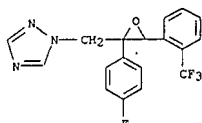
RN 131970-22-4 CAPLUS
 CN 1H-1,2,4-Triazole, 1-[[2-(2-chlorophenyl)-3-[2-(trifluoromethyl)phenyl]oxiranyl]methyl]- (9CI) (CA INDEX NAME)



RN 131970-23-5 CAPLUS
 CN 1H-1,2,4-Triazole, 1-[[2-(4-chlorophenyl)-3-[2-(trifluoromethyl)phenyl]oxiranyl]methyl]- (9CI) (CA INDEX NAME)

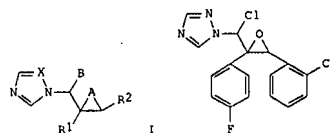


RN 131970-24-6 CAPLUS
 CN 1H-1,2,4-Triazole, 1-[[2-(4-fluorophenyl)-3-[2-(trifluoromethyl)phenyl]oxiranyl]methyl]- (9CI) (CA INDEX NAME)



L17 ANSWER 20 OF 25 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1990:440691 CAPLUS
 DOCUMENT NUMBER: 113:40691
 TITLE: Preparation of triazolylpropenes and -methyloxiranes as agrochemical fungicides
 INVENTOR(S): Seele, Rainer; Kober, Reiner; Goetz, Norbert; Ammermann, Eberhard; Lorenz, Gisela
 PATENT ASSIGNEE(S): BASF A.-G., Germany
 SOURCE: Ger. Offen., 12 pp.
 CODEN: GWXXRX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3825841	A1	19900201	DE 1988-3825841	19880729
IL 90846	A	19930513	IL 1989-90846	19890703
CA 1334594	C	19950228	CA 1989-604816	19890705
US 5017594	A	19910521	US 1989-376429	19890707
EP 352673	A2	19900131	EP 1989-113500	19890722
EP 352673	A3	19900425		
EP 352673	B1	19940309		
R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, NL, SE				
AT 102620	T	19940315	AT 1989-113500	19890722
ES 2050191	T3	19940516	ES 1989-113500	19890722
DD 283911	A5	19901031	DD 1989-331211	19890727
AU 8939051	A	19900201	AU 1989-39051	19890728
AU 610746	B2	19910523		
JP 02078664	A	19900319	JP 1989-194450	19890728
ZA 8905759	A	19910327	ZA 1989-5759	19890728
HU 206247	B	19921028	HU 1989-3906	19890728
PRIORITY APPLN. INFO.:			DE 1988-3825841	A 19880729
OTHER SOURCE(S):			EP 1989-113500	A 19890722
G1				

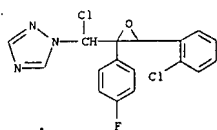


AB The title compds. [I; R1, R2 = (substituted) alkyl, cycloalkyl, cycloalkenyl, tetrahydropyranyl, norbornyl, pyridyl, naphthyl, biphenyl, Ph; A = O, bond; B = F, Cl, Br; X = CH, N], useful as ground and foliar agrochem. fungicides (no data), were prepared Thus, SOC12 was added to 1,2,4-triazole in CH2Cl2 at 0°; the mixture was stirred 30 min and cis-2-formyl-2-(4-fluorophenyl)-3-(2-chlorophenyl)oxirane (preparation given) was added. The mixture was stirred 12-15 h at room temperature to

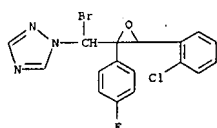
L17 ANSWER 20 OF 25 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 give 85% triazolylmethyloxirane II. I are said to be broad-spectrum fungicides with particular utility against Ascomycetes and Basidiomycetes.

IT 128075-95-6P 128075-97-8P 128075-98-9P
 128075-99-0P
 RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); RSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of, as agrochem. fungicide)

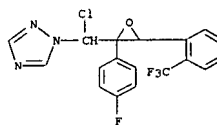
RN 128075-95-6 CAPLUS
 CN 1H-1,2,4-Triazole, 1-[chloro[3-(2-chlorophenyl)-2-(4-fluorophenyl)oxiranyl]methyl]- (9CI) (CA INDEX NAME)



RN 128075-97-8 CAPLUS
 CN 1H-1,2,4-Triazole, 1-[bromo[3-(2-chlorophenyl)-2-(4-fluorophenyl)oxiranyl]methyl]- (9CI) (CA INDEX NAME)

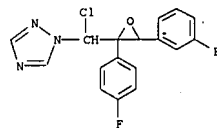


RN 128075-98-9 CAPLUS
 CN 1H-1,2,4-Triazole, 1-[chloro[2-(4-fluorophenyl)-3-[2-(trifluoromethyl)phenyl]oxiranyl]methyl]- (9CI) (CA INDEX NAME)



RN 128075-99-0 CAPLUS
 CN 1H-1,2,4-Triazole, 1-[chloro[2-(4-fluorophenyl)-3-(3-fluorophenyl)oxiranyl]methyl]- (9CI) (CA INDEX NAME)

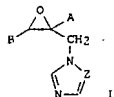
L17 ANSWER 20 OF 25 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



L17 ANSWER 21 OF 25 CAPLUS COPYRIGHT 2007 ACS ON STN

ACCESSION NUMBER: 1990:32141 CAPLUS
DOCUMENT NUMBER: 112:32141
TITLE: Preparation of azolymethyloxiranes as plant growth regulators
INVENTOR(S): Kurbach, Stefan; Janssen, Bernd; Recker, Hans Gert; Smuda, Hubert; Meyer, Norbert; Jung, Johann; Rademacher, Wilhelm
PATENT ASSIGNEE(S): BASF A.-G., Fed. Rep. Ger.
SOURCE: Ger. Offen., 14 pp.
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3737888	A1	19890518	DE 1987-3737888	19871107
EP 315850	A2	19890517	EP 1988-118076	19881031
EP 315850	A3	19900124		
EP 315850	B1	19920715		
R: AT, BE, CH, DE, FR, GB, LI, NL				
AT 78131	T	19920815	AT 1988-118076	19881031
FI 8805097	A	19890508	FI 1988-5097	19881104
FI 89854	B	19930831		
FI 89854	C	19931210		
HU 49460	A2	19891030	HU 1988-5709	19881104
HU 203832	B	19911028		
DD 28322	A5	19901010	DD 1988-321477	19881104
CA 1329995	C	19940607	CA 1988-582228	19881104
JP 01157905	A	19890621	JP 1988-279549	19881107
JP 2765878	B2	19980618		
ZA 8809149	A	19900829	ZA 1988-9149	19881207
PRIORITY APPLN. INFO.:			DE 1987-3737888	A 19871107
OTHER SOURCE(S):			EP 1988-118076	A 19881031
GI			CASREACT 112:32141; MARPAT 112:32141	

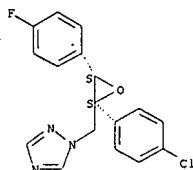


AB 1 (A, B = Cl-4 alkyl, haloalkyl, Ph, etc.; Z = CH, N) are prepared as plant growth regulators. A formulation comprised cis-1 (A = 4-fluorophenyl, B = 2-chlorophenyl, Z = N) 20, Na diisobutylphthalenesulfonate 3, Na ligninsulfonate 17, and silica gel powder 60 g in 20 L water. 2-Bromomethyl-2-phenyl-3-(2-chlorophenyl)oxirane was prepared by reacting 1-(2-chlorophenyl)-2-phenyl-3-bromoprop-1-ene with 3-chloroperoxybenzoic acid. This product was reacted with 1,2,4-triazole in NaH/DMF to prepare 1 (A = Ph, B = 2-ClC₆H₄, Z = N), which was recrystd. from tert-Bu Me ether to sep. the cis/trans-isomers. Rice seedling treated

L17 ANSWER 21 OF 25 CAPLUS COPYRIGHT 2007 ACS ON STN (Continued)

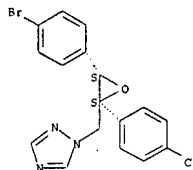
RN 88727-93-9 CAPLUS
CN 1H-1,2,4-Triazole, 1-[[2-(4-chlorophenyl)-3-(4-fluorophenyl)oxiranyl]methyl]-, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



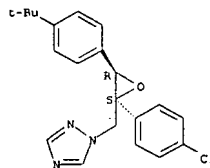
RN 88727-94-0 CAPLUS
CN 1H-1,2,4-Triazole, 1-[[2-(4-bromophenyl)-2-(4-chlorophenyl)oxiranyl]methyl]-, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 106147-23-3 CAPLUS
CN 1H-1,2,4-Triazole, 1-[[2-(4-chlorophenyl)-3-[(1,1-dimethylethyl)phenyl]oxiranyl]methyl]-, cis- (9CI) (CA INDEX NAME)

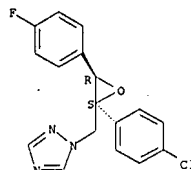
Relative stereochemistry.



L17 ANSWER 21 OF 25 CAPLUS COPYRIGHT 2007 ACS ON STN (Continued)
with cis-1 (A = 4-FC₆H₄, B = 2-ClC₆H₄, Z = N) in conc. of 1.3 + 10-6 M for 6 days, showed 50% of the growth of untreated plant.

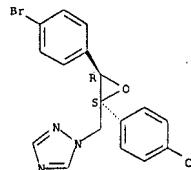
IT 88630-29-9P 88630-30-2P 88727-93-9P
88727-94-0P 106147-23-3P 106324-96-3P
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complexes with copper 106325-05-7P 106325-07-9P
106325-09-1DP, complexes with copper 106325-09-1P
106325-11-5P 106325-12-6P 106339-38-2P
122985-98-2P 122985-99-3P 122986-00-9P
122986-04-3P 122986-06-5P 122986-09-8P
122986-10-1P 122986-13-4P 122986-17-8P
122986-24-7P 122986-25-8P 122986-26-9P
122986-27-0P 122986-35-0P 122986-43-0P
122986-45-2P 122986-60-1P 122986-62-3P
122986-66-7P 122986-69-0P 122986-72-5P
123010-14-0P 133855-98-8DP, complexes with copper
133855-98-8P
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of, as plant growth regulator)
RN 88630-29-9 CAPLUS
CN 1H-1,2,4-Triazole, 1-[[2-(4-chlorophenyl)-3-(4-fluorophenyl)oxiranyl]methyl]-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 88630-30-2 CAPLUS
CN 1H-1,2,4-Triazole, 1-[[2-(4-bromophenyl)-2-(4-chlorophenyl)oxiranyl]methyl]-, cis- (9CI) (CA INDEX NAME)

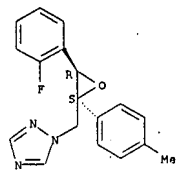
Relative stereochemistry.



L17 ANSWER 21 OF 25 CAPLUS COPYRIGHT 2007 ACS ON STN (Continued)

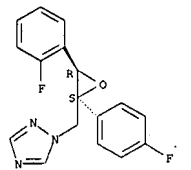
RN 106324-96-3 CAPLUS
CN 1H-1,2,4-Triazole, 1-[[3-(2-fluorophenyl)-2-(4-methylphenyl)oxiranyl]methyl]-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



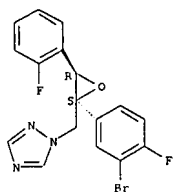
RN 106324-97-4 CAPLUS
CN 1H-1,2,4-Triazole, 1-[[3-(2-fluorophenyl)-2-(4-fluorophenyl)oxiranyl]methyl]-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



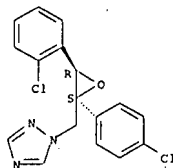
RN 106324-98-5 CAPLUS
CN 1H-1,2,4-Triazole, 1-[[2-(3-bromo-4-fluorophenyl)-3-(2-fluorophenyl)oxiranyl]methyl]-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



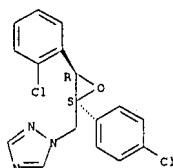
RN 106325-05-7 CAPLUS
CN 1H-1,2,4-Triazole, 1-[[3-(2-chlorophenyl)-2-(4-chlorophenyl)oxiranyl]methyl]-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



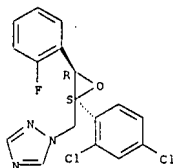
RN 106325-05-7 CAPLUS
CN 1H-1,2,4-Triazole, 1-[[3-(2-chlorophenyl)-2-(4-chlorophenyl)oxiranyl]methyl]-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



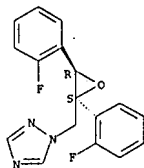
RN 106325-07-9 CAPLUS
CN 1H-1,2,4-Triazole, 1-[[3-(2-chlorophenyl)-2-(4-methylphenyl)oxiranyl]methyl]-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



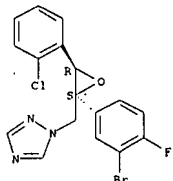
RN 106325-12-6 CAPLUS
CN 1H-1,2,4-Triazole, 1-[[3-(2-bis(2-fluorophenyl)oxiranyl)methyl]-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



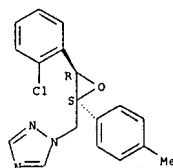
RN 106339-38-2 CAPLUS
CN 1H-1,2,4-Triazole, 1-[[3-(2-bromo-4-fluorophenyl)-3-(2-chlorophenyl)oxiranyl]methyl]-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



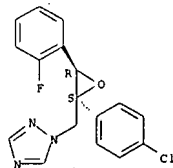
RN 122985-98-2 CAPLUS
CN 1H-1,2,4-Triazole, 1-[[3-(2-chlorophenyl)-2-(2,4-dichlorophenyl)oxiranyl]methyl]-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



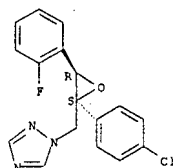
RN 106325-09-1 CAPLUS
CN 1H-1,2,4-Triazole, 1-[[2-(4-chlorophenyl)-3-(2-fluorophenyl)oxiranyl]methyl]-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



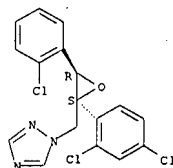
RN 106325-09-1 CAPLUS
CN 1H-1,2,4-Triazole, 1-[[2-(4-chlorophenyl)-3-(2-fluorophenyl)oxiranyl]methyl]-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



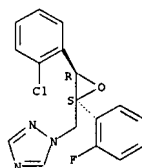
RN 106325-11-5 CAPLUS
CN 1H-1,2,4-Triazole, 1-[[2-(2,4-dichlorophenyl)-3-(2-fluorophenyl)oxiranyl]methyl]-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



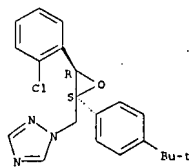
RN 122985-99-3 CAPLUS
CN 1H-1,2,4-Triazole, 1-[[3-(2-chlorophenyl)-2-(2-fluorophenyl)oxiranyl]methyl]-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



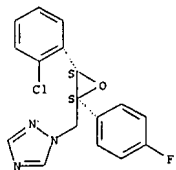
RN 122986-00-9 CAPLUS
CN 1H-1,2,4-Triazole, 1-[[3-(2-chlorophenyl)-2-(4-(1,1-dimethylethyl)phenyl)oxiranyl]methyl]-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



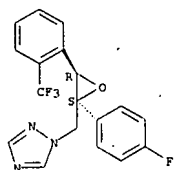
RN 122986-04-3 CAPLUS
CN 1H-1,2,4-Triazole, 1-[[3-(2-chlorophenyl)-2-(4-(tert-butyl)phenyl)oxiranyl]methyl]-, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



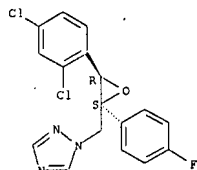
RN 122986-06-5 CAPLUS
CN 1H-1,2,4-Triazole, 1-[[3-(2-chloro-4-fluorophenyl)-2-(4-fluorophenyl)oxiranyl]methyl]-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



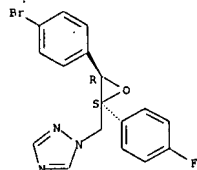
RN 122986-09-8 CAPLUS
CN 1H-1,2,4-Triazole, 1-[[3-(2,4-dichlorophenyl)-2-(4-fluorophenyl)oxiranyl]methyl]-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



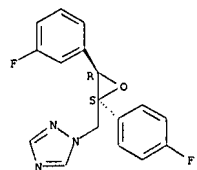
RN 122986-10-1 CAPLUS
CN 1H-1,2,4-Triazole, 1-[[3-(3-chlorophenyl)-2-(4-fluorophenyl)oxiranyl]methyl]-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



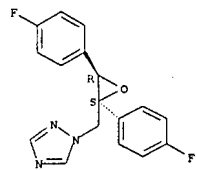
RN 122986-25-8 CAPLUS
CN 1H-1,2,4-Triazole, 1-[[3-(3-fluorophenyl)-2-(4-fluorophenyl)oxiranyl]methyl]-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



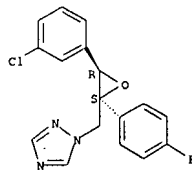
RN 122986-26-9 CAPLUS
CN 1H-1,2,4-Triazole, 1-[[3-bis(4-fluorophenyl)oxiranyl]methyl]-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



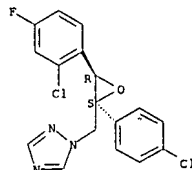
RN 122986-27-0 CAPLUS
CN 1H-1,2,4-Triazole, 1-[[3-(2-chloro-6-fluorophenyl)-2-(4-chlorophenyl)oxiranyl]methyl]-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



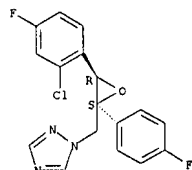
RN 122986-13-4 CAPLUS
CN 1H-1,2,4-Triazole, 1-[[3-(2-chloro-4-fluorophenyl)-2-(4-chlorophenyl)oxiranyl]methyl]-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



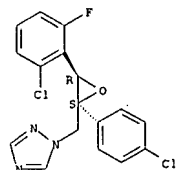
RN 122986-17-8 CAPLUS
CN 1H-1,2,4-Triazole, 1-[[3-(2-chloro-4-fluorophenyl)-2-(4-fluorophenyl)oxiranyl]methyl]-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



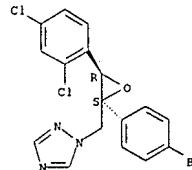
RN 122986-24-7 CAPLUS
CN 1H-1,2,4-Triazole, 1-[[3-(4-bromophenyl)-2-(4-fluorophenyl)oxiranyl]methyl]-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



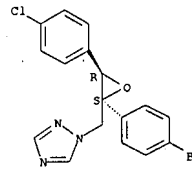
RN 122986-35-0 CAPLUS
CN 1H-1,2,4-Triazole, 1-[[3-(4-bromophenyl)-2-(2,4-dichlorophenyl)oxiranyl]methyl]-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



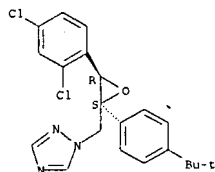
RN 122986-43-0 CAPLUS
CN 1H-1,2,4-Triazole, 1-[[3-(4-chlorophenyl)-2-(4-(1,1-dimethylethyl)phenyl)oxiranyl]methyl]-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



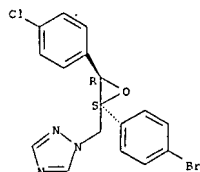
RN 122986-45-2 CAPLUS
CN 1H-1,2,4-Triazole, 1-[[3-(2,4-dichlorophenyl)-2-(4-(1,1-dimethylethyl)phenyl)oxiranyl]methyl]-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



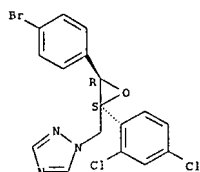
RN 122986-60-1 CAPLUS
 CN 1H-1,2,4-Triazole, 1-[[2-(4-bromophenyl)-3-(4-chlorophenyl)oxiranyl]methyl]-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 122986-62-3 CAPLUS
 CN 1H-1,2,4-Triazole, 1-[[2-(4-bromophenyl)-2-(2,4-dichlorophenyl)oxiranyl]methyl]-, cis- (9CI) (CA INDEX NAME)

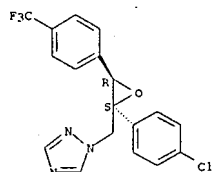
Relative stereochemistry.



RN 122986-66-7 CAPLUS
 CN 1H-1,2,4-Triazole, 1-[[2-bis(4-chlorophenyl)oxiranyl]methyl]-, cis- (9CI) (CA INDEX NAME)

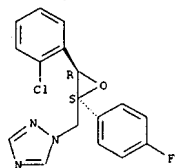
CN 1H-1,2,4-Triazole, 1-[[2-(4-chlorophenyl)-3-(4-(trifluoromethyl)phenyl)oxiranyl]methyl]-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



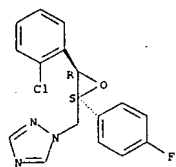
RN 133855-98-8 CAPLUS
 CN 1H-1,2,4-Triazole, 1-[[2-(2-chlorophenyl)-2-(4-fluorophenyl)-2-oxiranyl]methyl]-, rel- (CA INDEX NAME)

Relative stereochemistry.

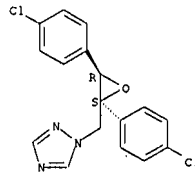


RN 133855-98-8 CAPLUS
 CN 1H-1,2,4-Triazole, 1-[[2-(2-chlorophenyl)-2-(4-fluorophenyl)-2-oxiranyl]methyl]-, rel- (CA INDEX NAME)

Relative stereochemistry.

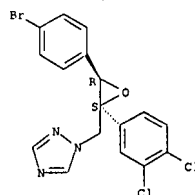


Relative stereochemistry.



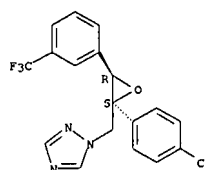
RN 122986-69-0 CAPLUS
 CN 1H-1,2,4-Triazole, 1-[[3-(4-bromophenyl)-2-(3,4-dichlorophenyl)oxiranyl]methyl]-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 122986-72-5 CAPLUS
 CN 1H-1,2,4-Triazole, 1-[[2-(4-chlorophenyl)-3-(3-(trifluoromethyl)phenyl)oxiranyl]methyl]-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 123010-14-0 CAPLUS

ACCESSION NUMBER: 1987:45707 CAPLUS

DOCUMENT NUMBER: 106:45707

TITLE: Azolymethyloxiranes and their use as plant-protecting agents

INVENTOR(S): Karbach, Stefan; Janssen, Bernd; Meyer, Norbert; Sauter, Hubert; Ammermann, Eberhard; Pommer, Ernst Heinrich

PATENT ASSIGNEE(S): BASF A.-G., Fed. Rep. Ger.

SOURCE: Eur. Pat. Appl., 13 pp.

CODEN: EPXXDW

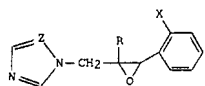
DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 196038	A2	19861001	EP 1986-103969	19860322
EP 196038	A3	19890726		
EP 196038	B1	19920102		
R: AT, BE, CH, DE, FR, GB, LI				
DE 3511411	A1	19861002	DE 1985-3511411	19850329
DE 3536529	A1	19870423	DE 1985-3536529	19851012
AT 71095	T	19920115	AT 1986-103969	19860322
CS 253748	B2	19871217	CS 1986-2101	19860326
PL 148706	B2	19891130	PL 1986-258649	19860327
PRIORITY APPLN. INFO.:				
OTHER SOURCE(S): CASREACT 106:45707				
GI				



AR Azolymethyloxirane derivs. I (R = alkyl, naphthyl, biphenyl, Ph eventually substituted with halo, NO₂, PhO, alkyl, alkoxy or haloalkyl; X = F, Cl, Br; Z = CH, N) are prepared as fungicides. Thus, 32 g 2-bromomethyl-2-phenyl-3-(2-chlorophenyl)oxirane in 150 mL DMP was reacted with a mixture of 23 g 1,2,4-triazole and 5 g NaH in 150 mL DMF to give 24 g I (R = Ph, X = Cl, Z = N) (II). II, applied at 0.0015%, controlled Erysiphe graminis on wheat.

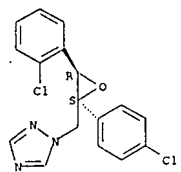
IT 106324-96-3P 106324-97-4P 106324-98-5P
106325-05-7P 106325-07-9P 106325-09-1P
106325-11-5P 106325-12-6P 106339-38-2P
133855-98-8P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of, as fungicide)

RN 106324-96-3 CAPLUS
CN 1H-1,2,4-Triazole, 1-[[3-(2-fluorophenyl)-2-(4-methylphenyl)oxiranyl]methyl]-, cis- (9CI) (CA INDEX NAME)

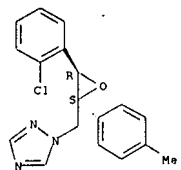
L17 ANSWER 22 OF 25 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
chlorophenyl]oxiranyl]methyl]-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



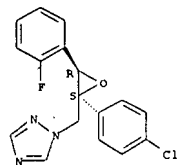
RN 106325-07-9 CAPLUS
CN 1H-1,2,4-Triazole, 1-[[3-(2-chlorophenyl)-2-(4-methylphenyl)oxiranyl]methyl]-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



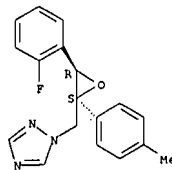
RN 106325-09-1 CAPLUS
CN 1H-1,2,4-Triazole, 1-[[2-(4-chlorophenyl)-3-(2-fluorophenyl)oxiranyl]methyl]-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



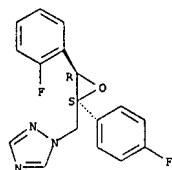
RN 106325-11-5 CAPLUS
CN 1H-1,2,4-Triazole, 1-[[2-(2,4-dichlorophenyl)-3-(2-

Relative stereochemistry.



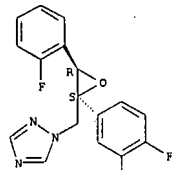
RN 106324-97-4 CAPLUS
CN 1H-1,2,4-Triazole, 1-[[3-(2-fluorophenyl)-2-(4-fluorophenyl)oxiranyl]methyl]-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 106324-98-5 CAPLUS
CN 1H-1,2,4-Triazole, 1-[[2-(3-bromo-4-fluorophenyl)-3-(2-fluorophenyl)oxiranyl]methyl]-, cis- (9CI) (CA INDEX NAME)

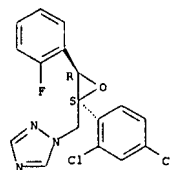
Relative stereochemistry.



RN 106325-05-7 CAPLUS
CN 1H-1,2,4-Triazole, 1-[[3-(2-chlorophenyl)-2-(4-

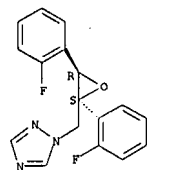
L17 ANSWER 22 OF 25 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
fluorophenyl]oxiranyl]methyl]-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



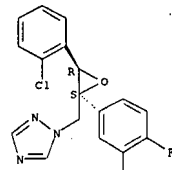
RN 106325-12-6 CAPLUS
CN 1H-1,2,4-Triazole, 1-[[2-bis(2-fluorophenyl)oxiranyl]methyl]-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 106339-38-2 CAPLUS
CN 1H-1,2,4-Triazole, 1-[[2-(3-bromo-4-fluorophenyl)-3-(2-chlorophenyl)oxiranyl]methyl]-, cis- (9CI) (CA INDEX NAME)

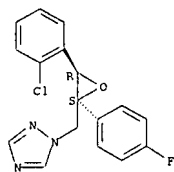
Relative stereochemistry.



RN 133855-98-8 CAPLUS

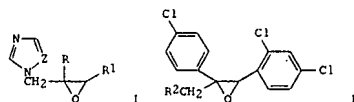
L17 ANSWER 22 OF 25 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 CN 1H-1,2,4-Triazole, 1-[[[2R,3S]-3-(2-chlorophenyl)-2-(4-fluorophenyl)-2-oxiranyl]methyl]-, rel- (CA INDEX NAME)

Relative stereochemistry.



L17 ANSWER 23 OF 25 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1987:38472 CAPLUS
 DOCUMENT NUMBER: 106:38472
 TITLE: Preparation, formulation, and use of (imidazolylmethyl)oxiranes and (triazolylmethyl)oxiranes as virucides
 INVENTOR(S): Janssen, Bernd; Kurbach, Stefan; Meyer, Norbert; Laur, Gerhard
 PATENT ASSIGNEE(S): BASF A.-G., Fed. Rep. Ger.
 SOURCE: Ger. Offen., 15 pp.
 CODEN: GWXXBX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

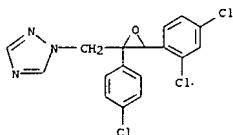
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3511411	A1	19861002	DE 1985-3511411	19850329
US 4652580	A	19870324	US 1986-839948	19860317
IL 78175	A	19891031	IL 1986-78175	19860317
CA 1271764	A1	19900717	CA 1986-504240	19860317
JP 61229820	A	19861014	JP 1986-58436	19860318
EP 196038	A2	19861001	EP 1986-103969	19860322
EP 196038	A3	19890726		
EP 196038	B1	19920102		
R: AT, BE, CH, DE, FR, GB, LI				
EP 196583	A2	19861008	EP 1986-103970	19860322
EP 196583	A3	19890809		
EP 196583	B1	19911023		
R: AT, BE, CH, DE, FR, GB, IT, LI, NL, SE				
AT 68697	T	19911115	AT 1986-103970	19860322
AT 71095	T	19920115	AT 1986-103969	19860322
DD 244057	A5	19870325	DD 1986-288368	19860326
IL 78272	A	19900209	IL 1986-78272	19860326
AU 8655550	A	19861002	AU 1986-55550	19860327
AU 586234	B2	19890706		
AU 8655549	A	19861016	AU 1986-55549	19860327
ZA 8602289	A	19861126	ZA 1986-2289	19860327
JP 61246179	A	19861101	JP 1986-68880	19860328
JP 07084463	B	19950913		
HU 11402	A2	19870428	HU 1986-1324	19860328
HU 201540	B	19901128		
US 4906652	A	19900306		
PRIORITY APPLN. INFO.:				
OTHER SOURCE(S):		MARPAT 106:38472		
GI				



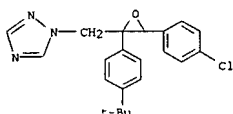
L17 ANSWER 23 OF 25 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

AB Imidazolyl- or triazolylmethyloxiranes I [R, R1 = alkyl, naphthyl, biphenyl, (un)substituted Ph; Z = CH, N] (>80 compds.) are prepared and formulated as virucides. The Wittig reaction of 2,4-dichlorophenyl-3-chloro-4-oxirane with 4-chlorophenylboronic acid, followed by bromination, gave 38.8% (Z)-2,4-dichlorophenyl-3-chloro-4-oxirane, which was epoxidized to form 90.6% diastereomeric oxiranes II (R2 = Br). The bromomethyloxirane reacted with imidazole to form 47.5% II (R2 = imidazol-1-yl). I (R = C6H4Cl-4, R1 = C6H3Cl2-2,4, Z = N) (III) was effective against herpes simplex in mice and guinea pigs. III was formulated as tablets containing

III 250, potato starch 100, lactose 50, 4% gelatin solution 45, and talc 10 mg.
 IT 88629-90-7P 88630-13-1P 88630-15-3P
 88630-18-6P 88630-28-8P 88630-29-9P
 88630-30-2P 88630-33-5P 88642-69-7P
 88727-93-9P 88727-94-0P 106147-23-3P
 106147-35-7P 106147-41-5P 106147-44-8P
 106147-45-9P 106147-48-2P 107284-86-6P
 RL: THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of, as virucide)
 RN 88629-90-7 CAPLUS
 CN 1H-1,2,4-Triazole, 1-[[[2-(4-chlorophenyl)-3-(2,4-dichlorophenyl)oxiranyl]methyl]- (9CI) (CA INDEX NAME)



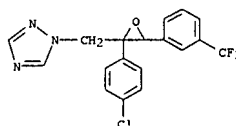
RN 88630-13-1 CAPLUS
 CN 1H-1,2,4-Triazole, 1-[[[3-(4-chlorophenyl)-2-[4-(1,1-dimethylethyl)phenyl]oxiranyl]methyl]- (9CI) (CA INDEX NAME)



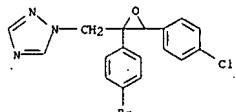
RN 88630-15-3 CAPLUS
 CN 1H-1,2,4-Triazole, 1-[[[3-(2,4-dichlorophenyl)-2-[4-(1,1-dimethylethyl)phenyl]oxiranyl]methyl]- (9CI) (CA INDEX NAME)

L17 ANSWER 23 OF 25 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 88630-18-6 CAPLUS
 CN 1H-1,2,4-Triazole, 1-[[[2-(4-chlorophenyl)-3-[3-(trifluoromethyl)phenyl]oxiranyl]methyl]- (9CI) (CA INDEX NAME)

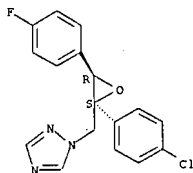


RN 88630-28-8 CAPLUS
 CN 1H-1,2,4-Triazole, 1-[[[2-(4-bromophenyl)-3-(4-chlorophenyl)oxiranyl]methyl]- (9CI) (CA INDEX NAME)



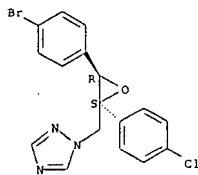
RN 88630-29-9 CAPLUS
 CN 1H-1,2,4-Triazole, 1-[[[2-(4-chlorophenyl)-3-(4-fluorophenyl)oxiranyl]methyl]-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.

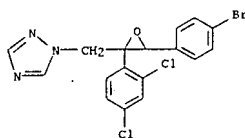


RN 88630-30-2 CAPLUS
CN 1H-1,2,4-Triazole, 1-[[3-(4-bromophenyl)-2-(4-chlorophenyl)oxiranyl]methyl]-, cis- (9CI) (CA INDEX NAME)

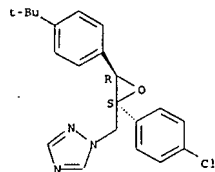
Relative stereochemistry.



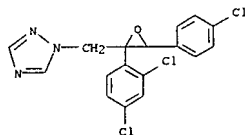
RN 88630-33-5 CAPLUS
CN 1H-1,2,4-Triazole, 1-[[3-(4-bromophenyl)-2-(2,4-dichlorophenyl)oxiranyl]methyl]- (9CI) (CA INDEX NAME)



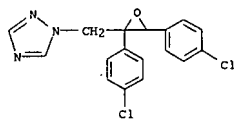
RN 88642-69-7 CAPLUS
CN 1H-1,2,4-Triazole, 1-[[2-(4-bromophenyl)-3-(2,4-dichlorophenyl)oxiranyl]methyl]- (9CI) (CA INDEX NAME)



RN 106147-35-7 CAPLUS
CN 1H-1,2,4-Triazole, 1-[[3-(4-chlorophenyl)-2-(2,4-dichlorophenyl)oxiranyl]methyl]- (9CI) (CA INDEX NAME)

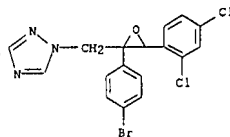


RN 106147-41-5 CAPLUS
CN 1H-1,2,4-Triazole, 1-[[2-bis(4-chlorophenyl)oxiranyl]methyl]- (9CI) (CA INDEX NAME)



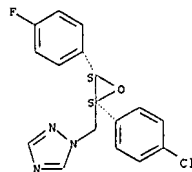
RN 106147-44-8 CAPLUS
CN 1H-1,2,4-Triazole, 1-[[2-(4-bromophenyl)-3-(4-fluorophenyl)oxiranyl]methyl]-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



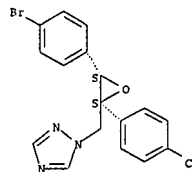
RN 88727-93-9 CAPLUS
CN 1H-1,2,4-Triazole, 1-[[2-(4-chlorophenyl)-3-(4-fluorophenyl)oxiranyl]methyl]-, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



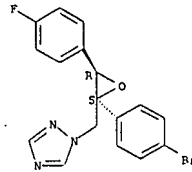
RN 88727-94-0 CAPLUS
CN 1H-1,2,4-Triazole, 1-[[3-(4-bromophenyl)-2-(4-chlorophenyl)oxiranyl]methyl]-, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



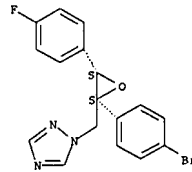
RN 106147-23-3 CAPLUS
CN 1H-1,2,4-Triazole, 1-[[2-(4-chlorophenyl)-3-(4-(1,1-dimethylethyl)phenyl)oxiranyl]methyl]-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.

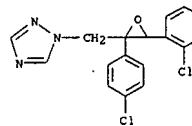


RN 106147-45-9 CAPLUS
CN 1H-1,2,4-Triazole, 1-[[2-(4-bromophenyl)-3-(4-fluorophenyl)oxiranyl]methyl]-, trans- (9CI) (CA INDEX NAME)

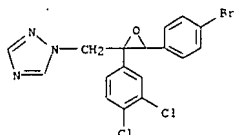
Relative stereochemistry.



RN 106147-48-2 CAPLUS
CN 1H-1,2,4-Triazole, 1-[[3-(2-chlorophenyl)-2-(4-chlorophenyl)oxiranyl]methyl]- (9CI) (CA INDEX NAME)



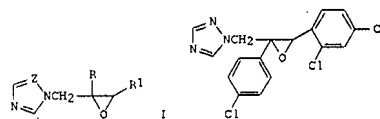
RN 107284-86-6 CAPLUS
CN 1H-1,2,4-Triazole, 1-[[3-(4-bromophenyl)-2-(3,4-dichlorophenyl)oxiranyl]methyl]- (9CI) (CA INDEX NAME)



ACCESSION NUMBER: 1984:103357 CAPLUS
 DOCUMENT NUMBER: 100:103357
 TITLE: (Azolymethyl)oxiranes and their use as drugs
 INVENTOR(S): Janssen, Bernd; Meyer, Norbert; Kohlmann, Friedrich; Wilhelm, Wassenberg, Walter; Heberle, Wolfgang
 PATENT ASSIGNEE(S): BASF A.-G., Fed. Rep. Ger.
 SOURCE: Ger. Offen., 30 pp.
 CODEN: GWXXRX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

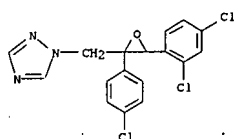
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3218129	A1	19831117	DE 1982-3218129	19820514
CA 1204117	A1	19860506	CA 1983-426058	19830418
IL 68433	A	19860429	IL 1983-68433	19830419
EP 94564	A2	19831123	EP 1983-104412	19830505
EP 94564	A3	19840613		
EP 94564	B1	19870930		
R: AT, BE, CH, DE, FR, GB, IT, LI, NL, SE				
AT 30026	T	19871015	AT 1983-104412	19830505
FI 8301590	A	19831115	FI 1983-1590	19830509
FI 77660	B	19881230		
FI 77660	C	19890410		
ZA 8303362	A	19840229	ZA 1983-3362	19830511
AU 8314588	A	19831117	AU 1983-14588	19830513
AU 557154	B2	19861211		
JP 58206585	A	19831201	JP 1983-82894	19830513
JP 04074355	B	19921126		
ES 522378	A1	19840301	ES 1983-522378	19830513
FI 8702591	A	19870610	FI 1987-2591	19870610
PRIORITY APPLN. INFO.:				
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			DE 1982-3218130	A 19820514
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			FI 1983-1590	A 19830509

OTHER SOURCE(S): CASREACT 100:103357; MARPAT 100:103357
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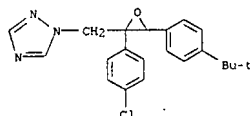


AB Title compds. I (R, R1 = Cl-4 alkyl, naphthyl, biphenyl, aryl; Z = N or CH) were prepared and in some cases shown to have bactericidal and fungicidal activity. Thus, 4-ClC6H4COMe was treated with 2,4-Cl2C6H3CH2MgCl, the product dehydrated, then brominated with N-bromosuccinimide and epoxidized with 3-ClC6H4CO2OH, and treated with,

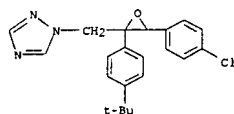
e.g., 1,2,4-triazole to give the (triazolymethyl)oxirane II.
 IT 88629-90-7P
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
 (preparation and bactericidal and fungicidal activity of)
 RN 88629-90-7 CAPLUS
 CN 1H-1,2,4-Triazole, 1-[[2-(4-chlorophenyl)-3-(2,4-dichlorophenyl)oxiranylmethyl]- (9CI) (CA INDEX NAME)



IT 88630-08-4P 88630-13-1P 88630-15-3P
 88630-19-6P 88630-28-8P 88630-29-9P
 88630-30-2P 88630-33-5P 88642-69-7P
 88727-93-9P 88727-94-0P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of, as bactericide and fungicide)
 RN 88630-08-4 CAPLUS
 CN 1H-1,2,4-Triazole, 1-[[2-(4-chlorophenyl)-3-(4-(1,1-dimethylethyl)phenyl)oxiranylmethyl]- (9CI) (CA INDEX NAME)

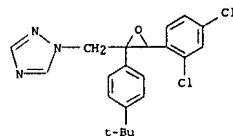


RN 88630-13-1 CAPLUS
 CN 1H-1,2,4-Triazole, 1-[[3-(4-chlorophenyl)-2-(4-(1,1-dimethylethyl)phenyl)oxiranylmethyl]- (9CI) (CA INDEX NAME)

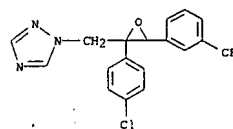


RN 88630-15-3 CAPLUS

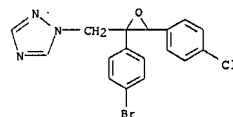
CN 1H-1,2,4-Triazole, 1-[[3-(2,4-dichlorophenyl)-2-(4-(1,1-dimethylethyl)phenyl)oxiranylmethyl]- (9CI) (CA INDEX NAME)



RN 88630-18-6 CAPLUS
 CN 1H-1,2,4-Triazole, 1-[[2-(4-chlorophenyl)-3-(3-(trifluoromethyl)phenyl)oxiranylmethyl]- (9CI) (CA INDEX NAME)

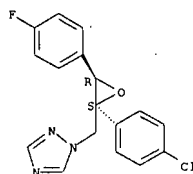


RN 88630-28-8 CAPLUS
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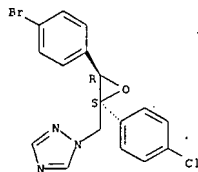
RN 88630-29-9 CAPLUS
 CN 1H-1,2,4-Triazole, 1-[[2-(4-chlorophenyl)-3-(4-fluorophenyl)oxiranylmethyl]-, dia- (9CI) (CA INDEX NAME)

Relative stereochemistry.

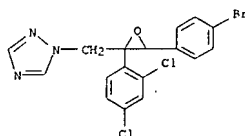


RN 88630-30-2 CAPLUS
CN 1H-1,2,4-Triazole, 1-[[3-(4-bromophenyl)-2-(4-chlorophenyl)oxiranyl]methyl]-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 88630-33-5 CAPLUS
CN 1H-1,2,4-Triazole, 1-[[3-(4-bromophenyl)-2-(2,4-dichlorophenyl)oxiranyl]methyl]- (9CI) (CA INDEX NAME)



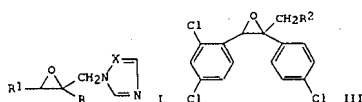
RN 88642-69-7 CAPLUS
CN 1H-1,2,4-Triazole, 1-[[2-(4-bromophenyl)-3-(2,4-dichlorophenyl)oxiranyl]methyl]- (9CI) (CA INDEX NAME)

ACCESSION NUMBER: 1984:85704 CAPLUS
DOCUMENT NUMBER: 100:85704
TITLE: Azolymethyloxiranes and fungicides containing them
INVENTOR(S): Janssen, Bernd; Meyer, Norbert; Pommer, Ernst
PATENT ASSIGNEE(S): Heinrich Ammermann, Eberhard
SOURCE: BASF A.-G., Fed. Rep. Ger.
CODEN: GUXXEX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

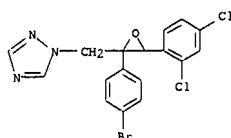
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3218130	A1	19831117	DE 1982-3218130	19820514
IL 68433	A	19860429	IL 1983-68433	19830419
CA 1205379	A1	19860603	CA 1983-426142	19830419
EP 94564	A2	19831123	EP 1983-104412	19830505
EP 94564	A3	19840613		
EP 94564	B1	19870930		
R: AT, BE, CH, DE, FR, GB, IT, LI, NL, SE				
US 4464381	A	19840807	US 1983-491650	19830505
AT 30026	T	19871015	AT 1983-104412	19830505
FI 8301591	A	19831115	FI 1983-1591	19830509
FI 79106	B	19890731		
FI 79106	C	19891110		
DD 209720	A5	19840523	DD 1983-250844	19830512
CS 226878	B2	19850515	CS 1983-3337	19830512
DK 8302149	A	19831115	DK 1983-2149	19830513
DK 162994	B	19920106		
DK 162994	C	19920601		
NO 8301720	A	19831115	NO 1983-1720	19830513
NO 160440	B	19890109		
NO 160440	C	19890419		
AU 8314588	A	19831117	AU 1983-14588	19830513
AU 557154	B2	19861211		
JP 58206585	A	19831201	JP 1983-82894	19830513
JP 04074355	B	19921126		
ES 522378	A1	19840301	ES 1983-522378	19830513
HU 31721	A2	19840528	HU 1983-1674	19830513
HU 193489	B	19871028		

PRIORITY APPLN. INFO.:

OTHER SOURCE(S): CASREACT 100:85704
GI

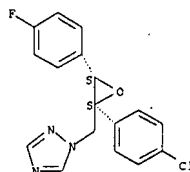


AR The title oxiranes I [R, R1 = C1-4 alkyl, naphthyl, C6H4Ph, Ph



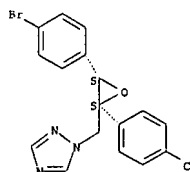
RN 88727-93-9 CAPLUS
CN 1H-1,2,4-Triazole, 1-[[2-(4-chlorophenyl)-3-(4-fluorophenyl)oxiranyl]methyl]-, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 88727-94-0 CAPLUS
CN 1H-1,2,4-Triazole, 1-[[3-(4-bromophenyl)-2-(4-chlorophenyl)oxiranyl]methyl]-, trans- (9CI) (CA INDEX NAME)

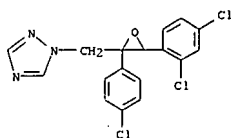
Relative stereochemistry.



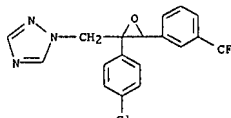
(un)substituted with halo, NO2, C1-4 alkyl, alkoxy, or haloalkyl, PhO, PhSO2; X = CH, N] and their plant-tolerable acid addn. salts and metal complexes, useful as fungicides, were prepd. by 4 methods. Wittig reaction of 2,4-Cl2C6H3CH2P-Ph3Cl- with 4-ClC6H4Ac and KOAc in refluxing MeOH 3 h and bromination of the product with NBS and AIBN in refluxing CCl4 gave 38.8% (2)-2,4-Cl2C6H3CH(C6H4Cl-4)CH2Br (II). Epoxidn. of II with 3-ClC6H4C(O)OCH in refluxing CHCl3 gave 70.2 and 20.4% diastereoisomers of oxirane III (R2 = Br); the major isomer reacted with imidazole and NaOMe in DMF at 100° to give 47.5% of a lower-melting diastereoisomer (IV) of III (R2 = 1H-imidazol-1-yl). At 0.025, 0.006, and 0.0015%, IV had 100% activity against Erysiphe graminis, whereas 1-(2,4-dichlorophenyl)-2-(imidazol-1-yl)ethanol and 2,4-dichlorophenyl 1,2,4-triazol-1-ylmethyl ketone had 90% activity.

IT 88629-90-7P 88630-18-6P 88630-28-8P
88630-29-9P 88642-69-7P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation and fungicidal activity of)

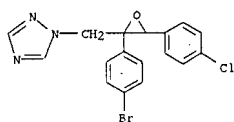
RN 88629-90-7 CAPLUS
CN 1H-1,2,4-Triazole, 1-[[2-(4-chlorophenyl)-3-(2,4-dichlorophenyl)oxiranyl]methyl]- (9CI) (CA INDEX NAME)



RN 88630-18-6 CAPLUS
CN 1H-1,2,4-Triazole, 1-[[2-(4-chlorophenyl)-3-(3-(trifluoromethyl)phenyl)oxiranyl]methyl]- (9CI) (CA INDEX NAME)

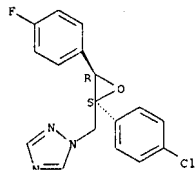


RN 88630-28-8 CAPLUS
CN 1H-1,2,4-Triazole, 1-[[2-(4-bromophenyl)-3-(4-chlorophenyl)oxiranyl]methyl]- (9CI) (CA INDEX NAME)

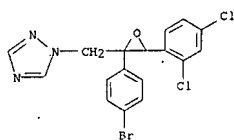


RN 88630-29-9 CAPLUS
CN 1H-1,2,4-Triazole, 1-[[2-(4-chlorophenyl)-3-(4-fluorophenyl)oxiranyl]methyl]-, cis- (9CI) (CA INDEX NAME)

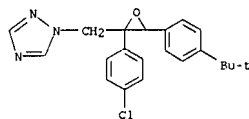
Relative stereochemistry.



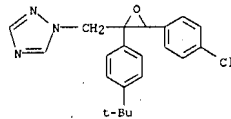
RN 88642-69-7 CAPLUS
CN 1H-1,2,4-Triazole, 1-[[2-(4-bromophenyl)-3-(2,4-dichlorophenyl)oxiranyl]methyl]- (9CI) (CA INDEX NAME)



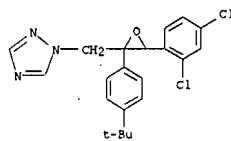
IT 88630-08-4 88630-13-1 88630-15-3
88630-29-9 88630-30-2 88630-33-5
RL: RCT (Reactant), RACT (Reactant or reagent)
(preparation as fungicide)
RN 88630-08-4 CAPLUS
CN 1H-1,2,4-Triazole, 1-[[2-(4-chlorophenyl)-3-[4-(1,1-dimethylethyl)phenyl]oxiranyl]methyl]- (9CI) (CA INDEX NAME)



RN 88630-13-1 CAPLUS
CN 1H-1,2,4-Triazole, 1-[[3-(4-chlorophenyl)-2-[4-(1,1-dimethylethyl)phenyl]oxiranyl]methyl]- (9CI) (CA INDEX NAME)

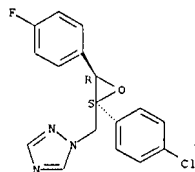


RN 88630-15-3 CAPLUS
CN 1H-1,2,4-Triazole, 1-[[3-(2,4-dichlorophenyl)-2-[4-(1,1-dimethylethyl)phenyl]oxiranyl]methyl]- (9CI) (CA INDEX NAME)



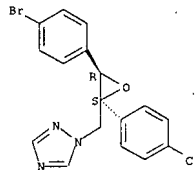
RN 88630-29-9 CAPLUS
CN 1H-1,2,4-Triazole, 1-[[2-(4-chlorophenyl)-3-[4-(1,1-dimethylethyl)phenyl]oxiranyl]methyl]-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.

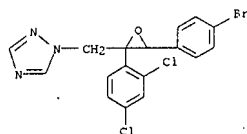


RN 88630-30-2 CAPLUS
CN 1H-1,2,4-Triazole, 1-[[3-(4-bromophenyl)-2-(4-chlorophenyl)oxiranyl]methyl]-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 88630-33-5 CAPLUS
CN 1H-1,2,4-Triazole, 1-[[3-(4-bromophenyl)-2-(2,4-dichlorophenyl)oxiranyl]methyl]- (9CI) (CA INDEX NAME)



=> logy y

LOGY IS NOT A RECOGNIZED COMMAND

The previous command name entered was not recognized by the system.
For a list of commands available to you in the current file, enter
"HELP COMMANDS" at an arrow prompt (=>).

=> log y

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

135.64

827.46

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

-19.50

-19.50

STN INTERNATIONAL LOGOFF AT 11:40:22 ON 03 AUG 2007